SEQUENCE LISTING

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<120> Nucleotide and Deduced Amino Acid Sequences of the Envelope 1 and Core Genes of Isolates of Hepatitis C Virus and the use of Reagents Derived From These Sequences in Diagnostic Methods and Vaccines

<130> 20264116US2

<140> 09/084,691
<141> 1998-05-26

<150> 08/290,665
<151> 1994-08-15

<150> 08/086,428
<151> 1993-06-29

<160> 274

<170> PatentIn Ver. 2.1

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<210> 7
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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

<220>
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<212> DNA
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<220>
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<212> DNA
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<220>
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<212> DNA
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<220>
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 15
<211> 576
<212> DNA
<213> Homo sapiens

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<210> 17
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<212> DNA
<213> Homo sapiens

<220>
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<212> DNA
<213> Homo sapiens

<220>
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<210> 19
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<212> DNA
<213> Homo sapiens

<220>
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<212> DNA
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<220>
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<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SW2

<400> 22
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ctggtggtat cgcagttact ccggatccca caagctgtcg tggacatggt agcgggggcc 480
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ttgattgtga tgctactctt tgctggcgtt gacggg 576

<210> 23
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T3

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<210> 24
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T10

<400> 24
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gagggcaact cctcccgctg ctgggtagcg ctcactccca cgctcgcggc caggaacacc 180
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<210> 25

<211> 576
<212> DNA
<213> Homo sapiens

<220>
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<210> 26
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T2

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<210> 27
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T4

<400> 27
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<210> 28
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<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T9

<400> 28
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gttgtcatcc tgttgctcac cgctggcgtg gacgcg 576

<210> 29
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: US10

<400> 29
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gttgtcatcc ttctgctagc cgctggggtg gacgcg 576

<210> 30
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: DK8

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<210> 31
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: DK11

<400> 31
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cattggggtg tggtgtttgg cttggcctat ttctccatgc agggagcgtg ggccaaggtc 540
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<210> 32
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SW3

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<210> 33
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T8

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cattggggcg tggtgtttgg cttggcctat ttctccatgc aaggagcgtg ggccaaagtc 540
atcgccatcc tcctccttgt cgcaggagtg gacgca 576

<210> 34
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: S83

<400> 34
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atcgttatcc tcctgctgac tgctggggtg gaggcg 576

<210> 35
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: DK12

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<210> 36
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: HK10

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gctatcatca tggttatgtt ttcaggggtc gatgcc 576

<210> 37
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: S2

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<210> 38
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: S52

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<210> 39
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: S54

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<210> 40
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: Z4

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<210> 41

<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: Z1

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gacttccgac cgcgccggca ctggaccacc caggattgca actgctccat ctatcctggt 360
cacgtctcgg gccacaggat ggcctgggac atgatgatga actggagccc taccagcgcg 420
ctgattatgg ctcagatctt acggatcccc tctatcctag gtgacttgct caccgggggt 480
cactggggag ttcttgctgg tctagctttc ttcagcatgc agagtaactg ggcgaaggtc 540
atcctggtcc tattcctctt tgccggggtc gaggga 576

<210> 42
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: Z6

<400> 42
gttaactatc gcaatgcctc gggcgtctat cacgtcacca acgactgccc gaactcgagc 60
atagtgtatg aggccgaaca ccagatctta cacctcccag ggtgcttgcc ctgtgtgagg 120
gttgggaatc agtcacgctg ctgggtggcc cttactccca ccgtggcggt gtcttatatc 180
ggtgctccgc ttgactccct ccggagacat gtggacctga tggtgggcgc cgctactgta 240
tgctctgccc tctacgttgg agatctgtgc ggtggtgcat tcttggttgg ccagatgttc 300
tccttccagc cgcgacgcca ctggactacg caggactgca attgttctat ctacgcaggg 360
catatcacgg gccacaggat ggcatgggac atgatgatga actggagtcc cacaaccacc 420
ctgcttctcg cccaggtcat gaggatccct agcactctgg tagatctact cgctggaggg 480
cactggggcg tccttgttgg gttggcgtac ttcagtatgc aagctaattg ggccaaagtc 540
atcctggtcc ttttcctctt cgctggagtt gatgcc 576

<210> 43
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: Z7

<400> 43
gtcaactatc acaatgcctc gggcgtctat cacatcacca acgactgccc gaactcgagc 60
ataatgtatg aggccgaaca ccacatccta cacctcccag ggtgcgtacc ctgtgtgagg 120
gaggggaacc agtcacgctg ctgggtggcc cttactccca ccgtggcggc gccttatatc 180
ggtgcaccgc ttgaatccat ccggagacat gtggacctga tggtaggcgc tgctacagtg 240
tgctccgctc tctacattgg ggacctgtgc ggtggcgtat ttttggttgg tcagatgttt 300
tctttccagc cgcgacgcca ctggactacg caggactgca attgttccat ctatgcgggg 360
cacgttacag gccacagaat ggcatgggac atgatgatga actggagtcc cacaaccacc 420
ttggtcctcg cccaggttat gaggatccct agcactctgg tggacctact cactggaggg 480
cactggggta tccttatcgg ggtggcatac ttctgcatgc aagctaattg ggccaaggtc 540
attctggtcc ttttcctcta cgctggagtt gatgcc 576

<210> 44
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: DK13

<400> 44
tacaactatc gcaacagctc gggtgtctac catgtcacca acgattgccc gaactcgagc 60
atagtctatg aaaccgatta ccacatctta cacctcccgg gatgcgttcc ttgcgtgagg 120
gaagggaaca agtctacatg ctgggtgtct ctcaccccca ccgtggctgc gcaacatctg 180
aatgctccgc ttgagtcttt gagacgtcac gtggatctga tggtgggcgg cgccactctc 240
tgctccgccc tctacatcgg agacgtgtgt gggggtgtgt tcttggtcgg tcaactgttc 300
accttccaac ctcgccgcca ctggaccacc caagactgca attgttccat ctacacagga 360
catatcacag gacacagaat ggcttgggac atgatgatga attggagccc cactgcgacg 420
ctggtcctcg cccaacttat gaggatccca ggcgccatgg tcgacctgct tgcaggcggc 480
cactggggca ttctggttgg catagcgtac ttcagcatgc aagctaattg ggccaaggtt 540
atcctggtcc tgtttctctt tgctggagtc gacgct 576

<210> 45
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA1

<400> 45
gttccctacc ggaatgcctc tggggtttac catgtcacca atgactgccc aaactcctcc 60
atagtctacg aggctgatag cctgatcttg cacgcacctg gctgcgtgcc ctgtgtcagg 120
caagataatg tcagtaggtg ctgggtccaa atcaccccca cactgtcagc cccgaccttc 180
ggagcggtca cggctcctct tcggagggcc gttgactact tagcgggagg agctgctctc 240

tgctccgcac tatacgtcgg cgacgcgtgc ggggcagtgt ttctggtagg ccaaatgttc 300
acctataggc ctcgccagca taccacagtg caggactgca actgttccat ttacagtggc 360
catatcaccg gccaccggat ggcttgggac atgatgatga attggtcacc tacgacagcc 420
ttgctgatgg cccagatgct acggatcccc caggtggtca tagacatcat agccgggggc 480
cactgggggg tcttgtttgc cgccgcatac tttgcgtcgg ccgccaactg ggctaaggta 540
gtgctggttc tgttcctgtt tgcgggggtc gatggc 576

<210> 46
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA4

<400> 46
gttccctacc gaaacgcctc tggggtttat catgtcacca atgattgccc aaactcttcc 60
atagtttacg aggctgataa cctgatcttg catgcacctg gttgcgtgcc ttgtgtcagg 120
caagataatg tcagtaagtg ctgggtccaa atcaccccca cgttgtcagc cccgaatctc 180
ggagcggtca cggctcctct tcggagggcc gttgactact tagcgggagg ggctgccctc 240
tgctccgcac tatacgtcgg ggacgcgtgc ggggcagtgt ttttggtagg ccaaatgttc 300
acctataggc ctcgccagca cactacggtg caagactgca attgctctat ttacagtggc 360
catatcaccg gccaccggat ggcatgggac atgatgatga attggtcacc tacgacggcc 420
ttgctgatgg cccagttgct acggattccc caggtggtca tcgacatcat tgccgggggc 480
cactgggggg tcttgtttgc cgccgcatat ttcgcgtcag cggctaactg ggctaaggtt 540
atactggtct tgtttctgtt tgcgggggtc gatgcc 576

<210> 47
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA5

<400> 47
gtcccctacc gaaatgcctc tggggtttat catgtcacca atgattgccc aaactcttcc 60
atagtctacg aggctgataa cctgattctg cacgcacctg gttgcgtgcc ctgtgtcaag 120
gaaggtaatg tcagtaggtg ctgggtccaa atcaccccca cattgtcagc cccgaacctc 180
ggagcggtca cggctcctct tcggagggtc gttgactact tagcgggagg ggctgccctc 240
tgctccgcac tatacgtcgg ggacgcgtgc ggggcagtgt tcttggtagg ccaaatgttc 300
acctataggc ctcgccagca tactacggtg caggactgca actgttccat ttacagcggc 360
catatcaccg gccaccgaat ggcatgggac atgatgatga attggtcacc tacgacagcc 420
ttggtgatgg cccaggtgct acggattccc caagtggtca ttgacatcat tgccgggggc 480
cactgggggg tcttgttcgc cgtcgcatac ttcgcgtcag cggctaactg ggctaaggtt 540
gtgctggtcc tgtttctgtt tgcgggggtc gatggc 576

<210> 48
<211> 576
<212> DNA
<213> Homo sapiens

<400> 48
gttccttacc ggaatgcctc tggggtgtat catgttacca atgattgccc aaactcttcc 60
atagtctatg aggctgatga cctgatccta cacgcacctg gctgcgtgcc ctgtgtccgg 120
aaggataatg tcagtagatg ctgggttcat atcaccccca cactatcagc cccgagcctc 180
ggagcggtca cggctcctct tcggagggcc gttgattact tggcgggagg ggccgccctg 240
tgctccgcgt tatacgtcgg agacgtgtgc ggggcattgt ttttggtagg ccaaatgttc 300
acctataggc ctcgccagca tgctacggta caggactgca actgctccat ttacagtggc 360
catatcactg gccaccggat ggcatgggac atgatgatga attggtcacc cgcgacagcc 420
ttggtgatgg cccaaatgct acggattccc caggtggtca ttgacatcat tgccgggggc 480
cactgggggg tcttgttcgc cgctgcatac ttcgcgtcgg cggctaactg ggctaaggtt 540
gtgctggtct tgtttctgtt tgcgggggtt gatgcc 576

<210> 49
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA7

<400> 49
gtcccctacc gaaatgcctc cggggtttat catgtcacca atgattgccc gaactcttcc 60
atagtctatg aggctgacaa cctgatcctg cacgcacctg gttgcgtgcc ctgtgtcaga 120
caaaataatg tcagtaggtg ctgggtccaa atcaccccca cattgtcagc cccgaacctc 180
ggagcggtca cggctcctct tcggagggcc gttgactacc tagcgggagg ggctgccctc 240
tgctccgcgc tatacgtcgg ggacgcgtgc ggggcagtgt ttttggtagg ccagatgttc 300
agctataggc ctcgccagca cactacggtg caggactgca actgttccat ttacagtggc 360
catatcaccg gccaccgaat ggcatgggac atgatgatga attggtcacc tacgacagcc 420
ttggtgatgg cccagttgct acggattccc caggtggtca tcgacatcat tgccgggggc 480
cactgggggg tcttgttcgc cgccgcatat ttcgcgtcag cggctaactg ggctaaggtt 540
gtgctggtct tgtttctgtt tgcgggggtc gatgcc 576

<210> 50
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA13

<400> 50
gttccctacc gaaatgcctc tggggtttat catgtcacca atgattgccc aaactcttcc 60
atcgtctacg aggctgatga cctgatctta cacgcacctg gttgcgtgcc ctgtgttagg 120
cagggtaatg tcagtaggtg ctgggtccag atcaccccca cactgtcagc cccgagcctc 180
ggagcggtca cggctcctct tcggagggcc gttgactact tagcgggggg ggctgccctt 240
tgctccgcgt tatacgtcgg agacgcgtgc ggggcagtgt ttttggtagg tcaaatgttc 300
acctatagcc ctcgccggca taatgttgtg caggactgca actgttccat ttacagtggc 360
cacatcaccg gccaccggat ggcatgggac atgatgatga attggtcacc tacaacagct 420
ttggtgatgg cccagttgtt acggattccc caggtggtca ttgacatcat tgccggggcc 480
cactgggggg tcttgttcgc cgccgcatac tacgcgtcgg cggctaactg ggccaaggtt 540
gtgctggtcc tgtttctgtt tgcgggggtc gatgcc 576

<210> 51
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: HK2

<400> 51
cttacctacg gcaactccag tgggctatac catctcacaa atgattgccc caactccagc 60
atcgtgctgg aggcggatgc tatgatcttg catttgcctg gatgcttgcc ttgtgtgagg 120
gtcgatgatc ggtccacctg ttggcatgct gtgaccccca ccctggccat accaaatgct 180
tccacgcccg caacgggatt ccgcaggcat gtggatcttc ttgcgggcgc cgcagtggtt 240
tgctcatccc tgtacatcgg ggacctgtgt ggctctctct ttttggcggg acaactattc 300
acctttcagc cccgccgtca ttggactgtg caagactgca actgctccat ctatacaggc 360
cacgtcaccg gccacaggat ggcttgggac atgatgatga actggtcacc cacaaccact 420
ctggtcctat ctagcatctt gagggtacct gagatttgtg cgagtgtgat atttggtggc 480
cattggggga tactactagc cgttgcctac tttggcatgg ctggcaactg gctaaaagtt 540
ctggctgttc tgttcctatt tgcaggggtt gaagca 576

<210> 52
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: DK7

<400> 52
Tyr Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Thr

```
            20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Val Ser Arg Cys Trp
         35                  40                  45

Val Ala Met Thr Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Thr
     50                  55                  60

Ala Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
                 85                  90                  95

Gly Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Gly
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ala
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala
145                 150                 155                 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn
                165                 170                 175

Trp Ala Lys Val Leu Val Val Leu Leu Leu Phe Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 53
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: DK9

<400> 53

```
Tyr Gln Val Arg Asn Ser Ser Gly Leu Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15
```

```
Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Ser
            20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ala Ser Lys Cys Trp
        35                  40                  45

Val Ala Val Ala Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Ala
    50                  55                  60

Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu
65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
                85                  90                  95

Gly Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Met Ala
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala
145                 150                 155                 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn
                165                 170                 175

Trp Ala Lys Val Val Val Val Leu Leu Leu Phe Thr Gly Val Asp Ala
            180                 185                 190
```

<210> 54
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: DR1

<400> 54

```
His Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15
```

```
Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Ala
            20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ala Ser Arg Cys Trp
        35                  40                  45

Val Ala Val Thr Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Thr
    50                  55                  60

Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu
65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
                85                  90                  95

Gly Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Met Ala
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala
145                 150                 155                 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn
                165                 170                 175

Trp Ala Lys Val Val Val Val Leu Leu Leu Phe Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 55
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: DR4

<400> 55
His Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys

```
  1               5                  10                  15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Thr
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Thr Ser Arg Cys Trp
         35                  40                  45

Val Ala Val Thr Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Thr
     50                  55                  60

Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
                 85                  90                  95

Gly Gln Leu Phe Thr Phe Ser Pro Arg His His Trp Thr Thr Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ala
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala
145                 150                 155                 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn
                165                 170                 175

Trp Ala Lys Val Leu Val Val Leu Leu Leu Phe Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 56
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: S14

<400> 56

```
Tyr Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys
 1               5                  10                  15

Pro Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Ala Ile Leu His Ala
            20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Thr Ser Arg Cys Trp
        35                  40                  45

Val Ala Met Thr Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Ala
    50                  55                  60

Thr Gln Leu Arg Arg Tyr Ile Asp Leu Leu Val Gly Ser Ala Thr Leu
65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
                85                  90                  95

Gly Gln Leu Phe Thr Phe Ser Pro Arg Arg Leu Trp Thr Thr Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ala
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala
145                 150                 155                 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn
                165                 170                 175

Trp Ala Lys Val Leu Val Val Leu Leu Leu Phe Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 57
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: S18

<400> 57

```
Tyr Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Pro Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Thr Ile Leu His Ser
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ala Ser Arg Cys Trp
         35                  40                  45

Val Pro Val Ala Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Ala
     50                  55                  60

Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
                 85                  90                  95

Ser Gln Leu Phe Thr Ile Ser Pro Arg Arg His Trp Thr Thr Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Ile Ala
    130                 135                 140

Gln Leu Leu Arg Val Pro Gln Ala Val Leu Asp Met Ile Ala Gly Ala
145                 150                 155                 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Ala Gly Asn
                165                 170                 175

Trp Ala Lys Val Leu Leu Val Leu Leu Leu Phe Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 58
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SW1

<400> 58

```
Tyr Gln Val Arg Asn Ser Ser Gly Leu Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Pro Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Ala Ile Leu His Ser
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Asp Gly Ala Pro Lys Cys Trp
         35                  40                  45

Val Ala Val Ala Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Ala
     50                  55                  60

Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
                 85                  90                  95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ala
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Leu Asp Met Ile Ala Gly Ala
145                 150                 155                 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn
                165                 170                 175

Trp Ala Lys Val Leu Ile Val Leu Leu Leu Phe Ser Gly Val Asp Ala
            180                 185                 190
```

<210> 59
<211> 192
<212> PRT
<213> Homo sapiens

<220>

<223> Individual Isolate: US11

<400> 59

```
Tyr Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Thr
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ala Ser Arg Cys Trp
         35                  40                  45

Val Ala Met Thr Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Thr
     50                  55                  60

Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
                 85                  90                  95

Gly Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Gly
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ala
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala
145                 150                 155                 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn
                165                 170                 175

Trp Ala Lys Val Leu Val Val Leu Leu Leu Phe Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 60
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: D1

<400> 60

```
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
 1               5                  10                  15

Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr
            20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Asp Asn Ser Ser Arg Cys Trp
        35                  40                  45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Gly Asn Val Pro Thr
    50                  55                  60

Thr Ala Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65                  70                  75                  80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Ile
                85                  90                  95

Ser Gln Leu Phe Thr Leu Ser Pro Arg Arg His Glu Thr Val Gln Glu
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Met Asp Met Val Ala Gly Ala
145                 150                 155                 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
                165                 170                 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
            180                 185                 190
```

<210> 61
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: D3

<400> 61
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr Gln Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asp Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ser Ser Val Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Glu
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 62
<211> 192
<212> PRT

<213> Homo sapiens

<220>
<223> Individual Isolate: DK1

<400> 62

```
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Val Asp Val Ile Met His Thr
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn His Ser Arg Cys Trp
         35                  40                  45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Ile Pro Thr
     50                  55                  60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
 65                  70                  75                  80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
                 85                  90                  95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Ala Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Leu Ser
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145                 150                 155                 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Ala Gly Asn
                165                 170                 175

Trp Ala Lys Val Leu Ile Val Leu Leu Leu Phe Ala Gly Val Asp Gly
            180                 185                 190
```

<210> 63
<211> 192

<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: HK3

<400> 63

```
Tyr Glu Val Arg Asn Val Ser Gly Ile Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Ser Ser Val Val Tyr Glu Thr Ala Asp Met Ile Met His Thr
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
         35                  40                  45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Val Ser Val Pro Thr
     50                  55                  60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
 65                  70                  75                  80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
                 85                  90                  95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
            100                 105                 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Val Ser Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145                 150                 155                 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
                165                 170                 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
            180                 185                 190
```

<210> 64

<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: HK4

<400> 64

```
His Glu Val His Asn Val Ser Gly Ile Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
         35                  40                  45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Ile Pro Thr
     50                  55                  60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
 65                  70                  75                  80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
                 85                  90                  95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
    130                 135                 140

Gln Leu Leu Arg Leu Pro Gln Ala Val Met Asp Met Val Ala Gly Ala
145                 150                 155                 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
                165                 170                 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
            180                 185                 190
```

<210> 65
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: HK5

<400> 65
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Leu Ser Ile Val Tyr Glu Thr Thr Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Ala Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Pro Thr
50 55 60

Thr Ala Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 66
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: HK8

<400> 66
Tyr Glu Val Arg Asn Val Ser Gly Ile Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Met Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Val Ser Val Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Ile Val Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 67
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: IND5

<400> 67

```
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ser Ser Arg Cys Trp
         35                  40                  45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Ser Thr
     50                  55                  60

Thr Thr Ile Arg His His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
 65                  70                  75                  80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
                 85                  90                  95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145                 150                 155                 160

His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
                165                 170                 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
            180                 185                 190
```

<210> 68
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: IND8

<400> 68
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Phe Ser Ser Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 69
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: P10

<400> 69
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ser Ser Val Pro Thr
50 55 60

Thr Ala Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Leu Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Val Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Val Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 70
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: S9

<400> 70
Tyr Glu Val Arg Asn Val Ser Gly Ala Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Val Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Gln Glu Gly Asn Ser Ser Gln Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Thr Val Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Val Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Ile
85 90 95

Ser Gln Leu Phe Thr Ile Ser Pro Arg Arg His Glu Thr Val Gln Asn
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Met Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly

180 185 190

<210> 71
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: S45

<400> 71
Tyr Glu Val Arg Asn Val Ser Gly Ala Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Val Asp Val Ile Leu His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ser Ser Val Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

```
Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
            180                 185                 190
```

<210> 72
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SA10

<400> 72

```
Tyr Glu Val Arg Asn Val Ser Gly Met Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
         35                  40                  45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ser Ser Val Pro Thr
     50                  55                  60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
 65                  70                  75                  80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
                 85                  90                  95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg Tyr Glu Thr Val Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly Arg Val Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Ala Ile Val Asp Met Val Ala Gly Ala
145                 150                 155                 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
                165                 170                 175
```

```
Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
            180                 185                 190
```

<210> 73
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SW2

<400> 73

```
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Ala Asn Ser Ser Arg Cys Trp
         35                  40                  45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Thr Ser Val Pro Thr
     50                  55                  60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
 65                  70                  75                  80

Cys Ser Val Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
                 85                  90                  95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145                 150                 155                 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
```

```
                165                 170                 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
            180                 185                 190
```

<210> 74
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: T3

<400> 74

```
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr Tyr Val Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Ser Asn Ser Ser Arg Cys Trp
         35                  40                  45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Pro Thr
     50                  55                  60

Lys Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
 65                  70                  75                  80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
                 85                  90                  95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145                 150                 155                 160
```

```
His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
                165                 170                 175

Trp Ala Lys Val Leu Ile Val Leu Leu Leu Phe Ala Gly Val Asp Gly
            180                 185                 190
```

<210> 75
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: T10

<400> 75

```
Tyr Glu Val Arg Asn Val Ser Gly Met Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Ser Ser Ile Val Phe Glu Ala Ala Asp Leu Ile Met His Thr
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ser Ser Arg Cys Trp
         35                  40                  45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Thr Ser Val Pro Thr
     50                  55                  60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
 65                  70                  75                  80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
                 85                  90                  95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Leu Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Leu Ser Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Met Asp Met Val Thr Gly Ala
145                 150                 155                 160
```

```
His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Ala Gly Asn
                165                 170                 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
            180                 185                 190
```

<210> 76
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: US6

<400> 76

```
Tyr Glu Val Arg Asn Val Ser Gly Met Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
         35                  40                  45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Pro Thr
     50                  55                  60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Thr Phe
 65                  70                  75                  80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Ile
                 85                  90                  95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Gln His Glu Thr Val Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Met Asp Met Val Ala Gly Ala
```

```
145                 150                 155                 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
                165                 170                 175

Trp Ala Lys Val Leu Ile Val Leu Leu Leu Phe Ala Gly Val Asp Gly
            180                 185                 190
```

<210> 77
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: T2

<400> 77

```
Ala Gln Val Arg Asn Thr Ser Arg Gly Tyr Met Val Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Glu Ser Ile Thr Trp Gln Leu Gln Ala Ala Val Leu His Val
             20                  25                  30

Pro Gly Cys Ile Pro Cys Glu Arg Leu Gly Asn Thr Ser Arg Cys Trp
         35                  40                  45

Ile Pro Val Thr Pro Asn Val Ala Val Arg Gln Pro Gly Ala Leu Thr
     50                  55                  60

Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr Leu
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Val Met Leu Ala
                 85                  90                  95

Ala Gln Met Phe Ile Val Ser Pro Arg Arg His Trp Phe Val Gln Glu
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly Thr Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Thr Met Ile Leu Ala
    130                 135                 140
```

```
Tyr Ala Met Arg Val Pro Glu Val Ile Ile Asp Ile Ile Gly Gly Ala
145                 150                 155                 160

His Trp Gly Val Met Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
                165                 170                 175

Trp Ala Lys Val Ile Val Ile Leu Leu Leu Ala Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 78
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: T4

<400> 78

```
Ala Gln Val Lys Asn Thr Thr Asn Ser Tyr Met Val Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Asp Ser Ile Thr Trp Gln Leu Gln Ala Ala Val Leu His Val
            20                  25                  30

Pro Gly Cys Val Pro Cys Glu Lys Thr Gly Asn Thr Ser Arg Cys Trp
        35                  40                  45

Ile Pro Val Ser Pro Asn Val Ala Val Arg Gln Pro Gly Ala Leu Thr
    50                  55                  60

Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr Leu
65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Val Met Leu Ala
                85                  90                  95

Ala Gln Met Phe Ile Val Ser Pro Gln His His Trp Phe Val Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly Thr Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Thr Met Ile Leu Ala
    130                 135                 140
```

```
Tyr Ala Met Arg Val Pro Glu Val Ile Leu Asp Ile Val Ser Gly Ala
145                 150                 155                 160

His Trp Gly Val Met Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
                165                 170                 175

Trp Ala Lys Val Val Val Ile Leu Leu Leu Ala Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 79
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: T9

<400> 79

```
Ala Glu Val Lys Asn Thr Ser Thr Ser Tyr Met Val Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Asp Ser Ile Thr Trp Gln Leu Gln Ala Ala Val Leu His Val
             20                  25                  30

Pro Gly Cys Val Pro Cys Glu Arg Val Gly Asn Ala Ser Arg Cys Trp
         35                  40                  45

Ile Pro Val Ser Pro Asn Val Ala Val Gln Arg Pro Gly Ala Leu Thr
     50                  55                  60

Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr Leu
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Val Met Leu Ala
                 85                  90                  95

Ala Gln Met Phe Ile Ile Ser Pro Gln His His Trp Phe Val Gln Glu
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly Thr Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Met Ile Leu Ala
```

```
    130                 135                 140

Tyr Ala Met Arg Val Pro Glu Val Ile Ile Asp Ile Ile Ser Gly Ala
145                 150                 155                 160

His Trp Gly Val Met Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
                165                 170                 175

Trp Ala Lys Val Val Val Ile Leu Leu Leu Thr Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 80
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: US10

<400> 80

```
Val Gln Val Lys Asn Thr Ser Thr Ser Tyr Met Val Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Asp Ser Ile Thr Trp Gln Leu Glu Ala Ala Val Leu His Val
             20                  25                  30

Pro Gly Cys Val Pro Cys Glu Lys Val Gly Asn Thr Ser Arg Cys Trp
         35                  40                  45

Ile Pro Val Ser Pro Asn Val Ala Val Gln Arg Pro Gly Ala Leu Thr
     50                  55                  60

Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr Leu
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Phe Cys Gly Gly Met Met Leu Ala
                 85                  90                  95

Ala Gln Met Phe Ile Val Ser Pro Arg His His Ser Phe Val Gln Glu
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly Thr Ile Thr Gly His Arg Met Ala
        115                 120                 125
```

```
Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Thr Leu Ile Leu Ala
    130                 135                 140

Tyr Val Met Arg Val Pro Glu Val Ile Ile Asp Ile Ile Ser Gly Ala
145                 150                 155                 160

His Trp Gly Val Leu Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
                165                 170                 175

Trp Ala Lys Val Val Val Ile Leu Leu Leu Ala Ala Gly Val Asp Ala
            180                 185                 190
```

```
<210> 81
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  DK8

<400> 81
Val Glu Val Arg Asn Ile Ser Ser Ser Tyr Tyr Ala Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Asn Ser Ile Thr Trp Gln Leu Thr Asp Ala Val Leu His Leu
             20                  25                  30

Pro Gly Cys Val Pro Cys Glu Asn Asp Asn Gly Thr Leu Arg Cys Trp
         35                  40                  45

Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu Thr
     50                  55                  60

His Asn Leu Arg Thr His Val Asp Val Ile Val Met Ala Ala Thr Val
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Val Met Ile Val
                85                  90                  95

Ser Gln Ala Leu Ile Ile Ser Pro Glu Arg His Asn Phe Thr Gln Glu
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Gln Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125
```

```
Trp Asp Met Met Leu Asn Trp Ser Pro Thr Leu Thr Met Ile Leu Ala
    130                 135                 140

Tyr Ala Ala Arg Val Pro Glu Leu Ala Leu Gln Val Val Phe Gly Gly
145                 150                 155                 160

His Trp Gly Val Val Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
                165                 170                 175

Trp Ala Lys Val Ile Ala Ile Leu Leu Leu Val Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 82
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: DK11

<400> 82

```
Val Glu Val Arg Asn Thr Ser Ser Ser Tyr Tyr Ala Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Asn Ser Ile Thr Trp Gln Leu Thr Asn Ala Val Leu His Leu
            20                  25                  30

Pro Gly Cys Val Pro Cys Glu Asn Asp Asn Gly Thr Leu His Cys Trp
        35                  40                  45

Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu Thr
    50                  55                  60

His Asn Leu Arg Ala His Ile Asp Met Ile Val Met Ala Ala Thr Val
65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Val Met Ile Val
                85                  90                  95

Ser Gln Ala Phe Ile Val Ser Pro Glu His His His Phe Thr Gln Glu
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Gln Gly His Ile Thr Gly His Arg Met Ala
```

```
        115                 120                 125

Trp Asp Met Met Leu Asn Trp Ser Pro Thr Leu Thr Met Ile Leu Ala
    130                 135                 140

Tyr Ala Ala Arg Val Pro Glu Leu Val Leu Glu Val Val Phe Gly Gly
145                 150                 155                 160

His Trp Gly Val Val Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
                165                 170                 175

Trp Ala Lys Val Ile Ala Ile Leu Leu Leu Val Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 83
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SW3

<400> 83

```
Val Glu Val Arg Asn Ile Ser Ser Ser Tyr Tyr Ala Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Ser Ser Ile Thr Trp Gln Leu Thr Asn Ala Val Leu His Leu
             20                  25                  30

Pro Gly Cys Val Pro Cys Glu Asn Asp Asn Gly Thr Leu His Cys Trp
         35                  40                  45

Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu Thr
     50                  55                  60

His Asn Leu Arg Ala His Val Asp Met Ile Val Met Ala Ala Thr Val
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Met Ile Val
                 85                  90                  95

Ser Gln Ala Phe Ile Ile Ser Pro Glu Arg His Asn Phe Thr Gln Glu
            100                 105                 110
```

```
Cys Asn Cys Ser Ile Tyr Gln Gly Arg Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Leu Asn Trp Ser Pro Thr Leu Thr Met Ile Leu Ala
    130                 135                 140

Tyr Ala Ala Arg Val Pro Glu Leu Val Leu Glu Val Val Phe Gly Gly
145                 150                 155                 160

His Trp Gly Val Val Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
                165                 170                 175

Trp Ala Lys Val Ile Ala Ile Leu Leu Leu Val Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 84
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: T8

<400> 84

```
Val Glu Val Arg Asn Thr Ser Phe Ser Tyr Tyr Ala Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Asn Ser Ile Thr Trp Gln Leu Thr Asn Ala Val Leu His Leu
             20                  25                  30

Pro Gly Cys Val Pro Cys Glu Asn Asp Asn Gly Thr Leu Arg Cys Trp
         35                  40                  45

Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu Thr
     50                  55                  60

His Asn Leu Arg Thr His Val Asp Val Ile Val Met Ala Ala Thr Val
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Val Met Ile Ala
                 85                  90                  95

Ser Gln Ala Phe Ile Ile Ser Pro Glu Arg His Asn Phe Thr Gln Glu
            100                 105                 110
```

```
Cys Asn Cys Ser Ile Tyr Gln Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Leu Asn Trp Ser Pro Thr Leu Thr Met Ile Leu Ala
    130                 135                 140

Tyr Ala Ala Arg Val Pro Glu Leu Val Leu Glu Val Val Phe Gly Gly
145                 150                 155                 160

His Trp Gly Val Val Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
                165                 170                 175

Trp Ala Lys Val Ile Ala Ile Leu Leu Leu Val Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 85
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: S83

<400> 85

```
Val Glu Val Lys Asp Thr Gly Asp Ser Tyr Met Pro Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Ser Ser Ile Val Trp Gln Leu Glu Gly Ala Val Leu His Thr
             20                  25                  30

Pro Gly Cys Val Pro Cys Glu Arg Thr Ala Asn Val Ser Arg Cys Trp
         35                  40                  45

Val Pro Val Ala Pro Asn Leu Ala Ile Ser Gln Pro Gly Ala Leu Thr
     50                  55                  60

Lys Gly Leu Arg Ala His Ile Asp Ile Ile Val Met Ser Ala Thr Val
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Leu Met Leu Ala
                 85                  90                  95

Ala Gln Val Val Val Val Ser Pro Gln His His Thr Phe Val Gln Glu
```

```
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly Arg Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Met Leu Leu Ala
    130                 135                 140

Tyr Leu Val Arg Ile Pro Glu Val Ile Leu Asp Ile Val Thr Gly Gly
145                 150                 155                 160

His Trp Gly Val Met Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ser
                165                 170                 175

Trp Ala Lys Val Ile Val Ile Leu Leu Leu Thr Ala Gly Val Glu Ala
            180                 185                 190
```

<210> 86
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: DK12

<400> 86

```
Leu Glu Trp Arg Asn Val Ser Gly Leu Tyr Val Leu Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Thr Cys Trp
         35                  40                  45

Thr Ser Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr
     50                  55                  60

Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Met
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Val Phe Leu Val
                 85                  90                  95
```

```
Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr
            100                 105                 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Leu Ser Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala
    130                 135                 140

His Val Leu Arg Leu Pro Gln Thr Leu Phe Asp Ile Ile Ala Gly Ala
145                 150                 155                 160

His Trp Gly Ile Met Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn
                165                 170                 175

Trp Ala Lys Val Ala Ile Ile Met Val Met Phe Ser Gly Val Asp Ala
            180                 185                 190
```

<210> 87
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: HK10

<400> 87

```
Leu Glu Trp Arg Asn Val Ser Gly Leu Tyr Val Leu Thr Asn Asp Cys
  1               5                  10                  15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Thr Cys Trp
         35                  40                  45

Thr Ser Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr
     50                  55                  60

Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Met
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Phe Leu Val
                 85                  90                  95
```

```
Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr
            100                 105                 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Leu Ser Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala
    130                 135                 140

His Val Leu Arg Leu Pro Gln Thr Leu Phe Asp Ile Ile Ala Gly Ala
145                 150                 155                 160

His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn
                165                 170                 175

Trp Ala Lys Val Ala Ile Ile Met Val Met Phe Ser Gly Val Asp Ala
            180                 185                 190
```

<210> 88
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: S2

<400> 88

```
Leu Glu Trp Arg Asn Thr Ser Gly Leu Tyr Val Leu Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Thr Cys Trp
         35                  40                  45

Thr Pro Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr
     50                  55                  60

Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Met
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Phe Leu Val
```

```
                85                  90                  95

Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr
            100                 105                 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Leu Ser Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala
    130                 135                 140

His Val Leu Arg Leu Pro Gln Thr Val Phe Asp Ile Ile Ala Gly Ala
145                 150                 155                 160

His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn
                165                 170                 175

Trp Ala Lys Val Ala Ile Ile Met Val Met Phe Ser Gly Val Asp Ala
            180                 185                 190
```

<210> 89
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: S52

<400> 89

```
Leu Glu Trp Arg Asn Thr Ser Gly Leu Tyr Val Leu Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Met Cys Trp
         35                  40                  45

Thr Pro Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr
     50                  55                  60

Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Leu
 65                  70                  75                  80
```

```
Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Phe Leu Val
                 85                  90                  95

Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr
            100                 105                 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Val Ser Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala
    130                 135                 140

His Ile Leu Arg Leu Pro Gln Thr Leu Phe Asp Ile Leu Ala Gly Ala
145                 150                 155                 160

His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn
                165                 170                 175

Trp Ala Lys Val Ala Ile Val Met Ile Met Phe Ser Gly Val Asp Ala
            180                 185                 190
```

<210> 90
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: S54

<400> 90

```
Leu Glu Trp Arg Asn Thr Ser Gly Leu Tyr Ile Leu Thr Asn Asp Cys
  1               5                  10                  15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Thr Cys Trp
         35                  40                  45

Thr Pro Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr
     50                  55                  60

Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Leu
 65                  70                  75                  80
```

```
Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Phe Leu Val
                 85                  90                  95

Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr
            100                 105                 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Leu Ser Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala
    130                 135                 140

His Ile Leu Arg Leu Pro Gln Thr Leu Phe Asp Ile Leu Ala Gly Ala
145                 150                 155                 160

His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn
                165                 170                 175

Trp Ala Lys Val Ala Ile Ile Met Ile Met Phe Ser Gly Val Asp Ala
            180                 185                 190
```

<210> 91
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: Z4

<400> 91

```
Glu His Tyr Arg Asn Ala Ser Gly Ile Tyr His Ile Thr Asn Asp Cys
  1               5                  10                  15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp His His Ile Leu His Leu
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Met Thr Gly Asn Thr Ser Arg Cys Trp
         35                  40                  45

Thr Pro Val Thr Pro Thr Val Ala Val Ala His Pro Gly Ala Pro Leu
     50                  55                  60

Glu Ser Phe Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr Leu
```

```
65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Ala Phe Leu Met
                85                  90                  95

Gly Gln Met Ile Thr Phe Arg Pro Arg Arg His Trp Thr Thr Gln Glu
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Thr Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Leu Leu Leu Ala
    130                 135                 140

Gln Ile Met Arg Val Pro Thr Ala Phe Leu Asp Met Val Ala Gly Gly
145                 150                 155                 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Phe Ser Met Gln Gly Asn
                165                 170                 175

Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 92
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: Z1

<400> 92

```
Val His Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Pro Asn Thr Ser Ile Val Tyr Glu Thr Glu His His Ile Met His Leu
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Thr Glu Asn Thr Ser Arg Cys Trp
         35                  40                  45

Val Pro Leu Thr Pro Thr Val Ala Ala Pro Tyr Pro Asn Ala Pro Leu
     50                  55                  60
```

```
Glu Ser Met Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr Met
 65                  70                  75                  80

Cys Ser Ala Phe Tyr Ile Gly Asp Leu Cys Gly Gly Val Phe Leu Val
                 85                  90                  95

Gly Gln Leu Phe Asp Phe Arg Pro Arg Arg His Trp Thr Thr Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ser Ala Leu Ile Met Ala
    130                 135                 140

Gln Ile Leu Arg Ile Pro Ser Ile Leu Gly Asp Leu Leu Thr Gly Gly
145                 150                 155                 160

His Trp Gly Val Leu Ala Gly Leu Ala Phe Phe Ser Met Gln Ser Asn
                165                 170                 175

Trp Ala Lys Val Ile Leu Val Leu Phe Leu Phe Ala Gly Val Glu Gly
            180                 185                 190
```

<210> 93
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: Z6

<400> 93

```
Val Asn Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Glu His Gln Ile Leu His Leu
             20                  25                  30

Pro Gly Cys Leu Pro Cys Val Arg Val Gly Asn Gln Ser Arg Cys Trp
         35                  40                  45

Val Ala Leu Thr Pro Thr Val Ala Val Ser Tyr Ile Gly Ala Pro Leu
     50                  55                  60
```

```
Asp Ser Leu Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr Val
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Ala Phe Leu Val
                85                  90                  95

Gly Gln Met Phe Ser Phe Gln Pro Arg Arg His Trp Thr Thr Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Ala Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Leu Leu Leu Ala
    130                 135                 140

Gln Val Met Arg Ile Pro Ser Thr Leu Val Asp Leu Leu Ala Gly Gly
145                 150                 155                 160

His Trp Gly Val Leu Val Gly Leu Ala Tyr Phe Ser Met Gln Ala Asn
                165                 170                 175

Trp Ala Lys Val Ile Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 94
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: Z7

<400> 94

```
Val Asn Tyr His Asn Ala Ser Gly Val Tyr His Ile Thr Asn Asp Cys
  1               5                  10                  15

Pro Asn Ser Ser Ile Met Tyr Glu Ala Glu His His Ile Leu His Leu
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Gln Ser Arg Cys Trp
         35                  40                  45

Val Ala Leu Thr Pro Thr Val Ala Ala Pro Tyr Ile Gly Ala Pro Leu
```

```
     50                  55                  60

Glu Ser Ile Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr Val
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Ile Gly Asp Leu Cys Gly Gly Val Phe Leu Val
                 85                  90                  95

Gly Gln Met Phe Ser Phe Gln Pro Arg Arg His Trp Thr Thr Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Ala Gly His Val Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Leu Val Leu Ala
    130                 135                 140

Gln Val Met Arg Ile Pro Ser Thr Leu Val Asp Leu Leu Thr Gly Gly
145                 150                 155                 160

His Trp Gly Ile Leu Ile Gly Val Ala Tyr Phe Cys Met Gln Ala Asn
                165                 170                 175

Trp Ala Lys Val Ile Leu Val Leu Phe Leu Tyr Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 95
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: DK13

<400> 95

```
Tyr Asn Tyr Arg Asn Ser Ser Gly Val Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Pro Asn Ser Ser Ile Val Tyr Glu Thr Asp Tyr His Ile Leu His Leu
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Lys Ser Thr Cys Trp
         35                  40                  45
```

```
Val Ser Leu Thr Pro Thr Val Ala Ala Gln His Leu Asn Ala Pro Leu
     50                  55                  60

Glu Ser Leu Arg Arg His Val Asp Leu Met Val Gly Gly Ala Thr Leu
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Ile Gly Asp Val Cys Gly Gly Val Phe Leu Val
                 85                  90                  95

Gly Gln Leu Phe Thr Phe Gln Pro Arg Arg His Trp Thr Thr Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Thr Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Thr Leu Val Leu Ala
    130                 135                 140

Gln Leu Met Arg Ile Pro Gly Ala Met Val Asp Leu Leu Ala Gly Gly
145                 150                 155                 160

His Trp Gly Ile Leu Val Gly Ile Ala Tyr Phe Ser Met Gln Ala Asn
                165                 170                 175

Trp Ala Lys Val Ile Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 96
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SA1

<400> 96

```
Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Ser Leu Ile Leu His Ala
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Gln Asp Asn Val Ser Arg Cys Trp
         35                  40                  45
```

```
Val Gln Ile Thr Pro Thr Leu Ser Ala Pro Thr Phe Gly Ala Val Thr
     50                  55                  60

Ala Pro Leu Arg Arg Ala Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Ala Cys Gly Ala Val Phe Leu Val
                 85                  90                  95

Gly Gln Met Phe Thr Tyr Arg Pro Arg Gln His Thr Thr Val Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Leu Met Ala
    130                 135                 140

Gln Met Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Gly
145                 150                 155                 160

His Trp Gly Val Leu Phe Ala Ala Ala Tyr Phe Ala Ser Ala Ala Asn
                165                 170                 175

Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Gly
            180                 185                 190
```

<210> 97
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SA4

<400> 97

```
Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asn Leu Ile Leu His Ala
             20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Gln Asp Asn Val Ser Lys Cys Trp
```

```
         35                  40                  45

Val Gln Ile Thr Pro Thr Leu Ser Ala Pro Asn Leu Gly Ala Val Thr
     50                  55                  60

Ala Pro Leu Arg Arg Ala Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Ala Cys Gly Ala Val Phe Leu Val
                 85                  90                  95

Gly Gln Met Phe Thr Tyr Arg Pro Arg Gln His Thr Thr Val Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Leu Met Ala
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Gly
145                 150                 155                 160

His Trp Gly Val Leu Phe Ala Ala Ala Tyr Phe Ala Ser Ala Ala Asn
                165                 170                 175

Trp Ala Lys Val Ile Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 98
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SA5

<400> 98

```
Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asn Leu Ile Leu His Ala
             20                  25                  30
```

```
Pro Gly Cys Val Pro Cys Val Lys Glu Gly Asn Val Ser Arg Cys Trp
         35                  40                  45

Val Gln Ile Thr Pro Thr Leu Ser Ala Pro Asn Leu Gly Ala Val Thr
     50                  55                  60

Ala Pro Leu Arg Arg Val Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Ala Cys Gly Ala Val Phe Leu Val
                 85                  90                  95

Gly Gln Met Phe Thr Tyr Arg Pro Arg Gln His Thr Thr Val Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Met Ala
    130                 135                 140

Gln Val Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Gly
145                 150                 155                 160

His Trp Gly Val Leu Phe Ala Val Ala Tyr Phe Ala Ser Ala Ala Asn
                165                 170                 175

Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Gly
            180                 185                 190
```

<210> 99
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SA6

<400> 99

```
Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Leu Ile Leu His Ala
             20                  25                  30
```

```
Pro Gly Cys Val Pro Cys Val Arg Lys Asp Asn Val Ser Arg Cys Trp
         35                  40                  45

Val His Ile Thr Pro Thr Leu Ser Ala Pro Ser Leu Gly Ala Val Thr
     50                  55                  60

Ala Pro Leu Arg Arg Ala Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Leu Phe Leu Val
                 85                  90                  95

Gly Gln Met Phe Thr Tyr Arg Pro Arg Gln His Ala Thr Val Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Thr Ala Leu Val Met Ala
    130                 135                 140

Gln Met Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Gly
145                 150                 155                 160

His Trp Gly Val Leu Phe Ala Ala Ala Tyr Phe Ala Ser Ala Ala Asn
                165                 170                 175

Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala
            180                 185                 190
```

<210> 100
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SA7

<400> 100

```
Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asn Leu Ile Leu His Ala
```

```
            20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Gln Asn Asn Val Ser Arg Cys Trp
         35                  40                  45

Val Gln Ile Thr Pro Thr Leu Ser Ala Pro Asn Leu Gly Ala Val Thr
     50                  55                  60

Ala Pro Leu Arg Arg Ala Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu
 65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Ala Cys Gly Ala Val Phe Leu Val
                 85                  90                  95

Gly Gln Met Phe Ser Tyr Arg Pro Arg Gln His Thr Thr Val Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Met Ala
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Gly
145                 150                 155                 160

His Trp Gly Val Leu Phe Ala Ala Ala Tyr Phe Ala Ser Ala Ala Asn
                165                 170                 175

Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala
            180                 185                 190
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<210> 101
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SA13

<400> 101

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Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
  1               5                  10                  15
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Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Leu Ile Leu His Ala
            20                  25                  30

Pro Gly Cys Val Pro Cys Val Arg Gln Gly Asn Val Ser Arg Cys Trp
        35                  40                  45

Val Gln Ile Thr Pro Thr Leu Ser Ala Pro Ser Leu Gly Ala Val Thr
    50                  55                  60

Ala Pro Leu Arg Arg Ala Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu
65                  70                  75                  80

Cys Ser Ala Leu Tyr Val Gly Asp Ala Cys Gly Ala Val Phe Leu Val
                85                  90                  95

Gly Gln Met Phe Thr Tyr Ser Pro Arg Arg His Asn Val Val Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Met Ala
    130                 135                 140

Gln Leu Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Ala
145                 150                 155                 160

His Trp Gly Val Leu Phe Ala Ala Ala Tyr Tyr Ala Ser Ala Ala Asn
                165                 170                 175

Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala
            180                 185                 190
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<210> 102
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: HK2

<400> 102

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Leu Thr Tyr Gln Asn Ser Ser Gln Leu Tyr His Leu Thr Asn Asp Cys
  1               5                  10                  15
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Pro Asn Ser Ser Ile Val Leu Glu Ala Asp Ala Met Ile Leu His Leu
            20                  25                  30

Pro Gln Cys Leu Pro Cys Val Arg Val Asp Asp Arg Ser Thr Cys Trp
         35                  40                  45

His Ala Val Thr Pro Thr Leu Ala Ile Pro Asn Ala Ser Thr Pro Ala
     50                  55                  60

Thr Gln Phe Arg Arg His Val Asp Leu Leu Ala Gln Ala Ala Val Val
 65                  70                  75                  80

Cys Ser Ser Leu Tyr Ile Gln Asp Leu Cys Gln Ser Leu Phe Leu Ala
                 85                  90                  95

Gln Gln Leu Phe Thr Phe Gln Pro Arg Arg His Trp Thr Val Gln Asp
            100                 105                 110

Cys Asn Cys Ser Ile Tyr Thr Gln His Val Thr Gln His Arg Met Ala
        115                 120                 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Leu Val Leu Ser
    130                 135                 140

Ser Ile Leu Arg Val Pro Glu Ile Cys Ala Ser Val Ile Phe Gln Gln
145                 150                 155                 160

His Trp Gln Ile Leu Leu Ala Val Ala Tyr Phe Gln Met Ala Gln Asn
                165                 170                 175

Trp Leu Lys Val Leu Ala Val Leu Phe Leu Phe Ala Gln Val Glu Ala
            180                 185                 190
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<210> 103
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: DK7

<400> 103
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gacgtcaagt tcccgggtgg cggtcagatc gttggtggag tttacttgtt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgccgagg aagacttccg agcggtcgca acctcgaggt 180
agacgtcagc ctatccccaa ggcacgtcgg cccgagggca ggacctgggc tcagcccggg 240
taccccttggc ccctctatgg caatgagggc tgcgggtggg cgggatggct cctgtctccc 300
cgtggctctc ggcctagctg gggccccaca gacccccggc gcaggtcgcg caatttgggt 360
aaagtcatcg ataccccttac gtgcggcttc gccgacctca tggggtacat accgctcgtc 420
ggcgcccctc ttggaggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaaccttcct ggttgctctt tctctatctt ccttttggcc 540
ctgctctctt gcctgaccgt gcccgcttcg gcc 573

<210> 104
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: US11

<400> 104
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gacgtcaagt tcccgggtgg cggtcagatc gttggtggag tttacttgtt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcgaggt 180
agacgtcagc ctatccccaa ggcacgtcgg cccgagggca ggacctgggc tcagcccggg 240
taccccttggc ccctctatgg caatgagggc tgcgggtggg cgggatggct cctgtctccc 300
cgtggctctc ggcctagctg gggccccacg gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg ataccccttac gtgcggcttc gccgacctca tggggtacat accgctcgtc 420
ggcgcccctc tcggaggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaaccttcct ggttgctctt tctctatctt ccttctggcc 540
ctgctctctt gcctgactgt gcccgcttca gcc 573

<210> 105
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: S14

<400> 105
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gacgtcaagt tcccgggtgg cggtcagatc gttggtggag tttacttgtt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcgaggt 180
agacgtcagc ctatccccaa ggcacgtcgg cccgagggca ggacctgggc tcagcccggg 240
tatccttggc ccctctatgg caatgagggc tgcgggtggg cgggatggct cctgtctccc 300
cgtggctctc ggcctagctg gggccccaca gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg ataccctcac gtgcggcttc gccgacctca tggggtacat accgctcgtc 420

ggcgcccccc tcgggggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaaccttcct ggttgctctt tctctatctt cctcctagcc 540
ctgctttctt gcctgactgt gcccgcttca gcc 573

<210> 106
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SW1

<400> 106
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg tcgcccacag 60
gacgtcaagt tcccgggtgg cggtcagatc gttggtggag tttacttgtt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcgaggt 180
agacgtcagc ctatccccaa ggcgcgtcgg cccgagggca ggacctgggc tcagcccggg 240
tatccttggc ccctctatgg caatgagggc tgcggatggg cgggatggct cctgtccccc 300
cgtggctctc ggcctagctg gggccctaca gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg ataccctcac gtgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccctc ttggaggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaaccttcct ggttgctctt tctctatctt ccttctggcc 540
ctgctttctt gcctgacagt gcccgcgtca gcc 573

<210> 107
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: S18

<400> 107
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gacgttaagt tcccgggtgg cggtcagatc gttggtggag tttacttgtt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcgcggt 180
agacgtcagc ctatccccaa ggcgcgtcgg cccgagggca ggacctgggc tcagcccggg 240
taccccttggc ccctctatgg caatgagggc tgcgggtggg cgggatggct cctgtccccc 300
cgtggctccc ggcctagctg gggccctaca gacccccggc gtaggtcgcg caatttgggc 360
aaagtcatcg ataccctcac gtgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccctc tcggaggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaaccttcct ggttgctctt tctctatctt ccttctggcc 540
ctgctctctt gtctgactgt gcccgcgtca gct 573

<210> 108

<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: DR4

<400> 108
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gacgtcaagt tcccgggtgg cggtcagatc gttggtggag tttacttgtt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcgaggt 180
agacgtcagc ctatccccaa ggcgcgtcgg cccgagggca ggacctgggc tcagcccggg 240
taccccttggc ccctctatgg caatgagggc tgcgggtggg cgggatggct cctgtccccc 300
cgtggctctc ggcctagctg gggccccaca gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg acaccctcac gtgcggcttc gccgacctca tggggtacat cccgctcgtc 420
ggcgcccccc ttgggggcgc tgccagggcc ctggcgcatg gcgtccgagt tctggaagac 480
ggcgtgaact atgcaacagg gaatcttcct ggttgctctt tctctatctt ccttttggct 540
ttgctctctt gcttgaccgt gcccgcatcg gcc 573

<210> 109
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA10

<400> 109
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tctatctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatccccaa ggctcgccag cccgagggca ggacctgggc ccagcccggg 240
taccccttggc ccctctatgg caatgagggc ttggggtggg caggatggct cctgtcaccc 300
cgtggctctc ggcctagttg gggccccacg gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccctt taggggcgc tgccagggcc ttggcgcatg gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaatttgccc ggttgccctt tctctatctt cctcttggct 540
ttgctgtcct gtttaaccat cccagcttcc gct 573

<210> 110
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: S45

<400> 110
atgagcacga atcctaaacc tcaaagacaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggtgg cggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcaca acctcgtgga 180
cggcgacaac ctatccccaa ggctcgccgg cccgagggca gggcctgggc ccagcccggg 240
catccttggc ccctctatgg caatgagggc ttggggtggg caggatggct cctgtcaccc 300
cgtggctccc ggcctagttg gggccccacg gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg ataccctcac gtgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc taggggcgc tgccagagcc ttggcgcatg gcgtccgggt tctggaggac 480
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ctgctgtcct gcttgaccat cccagcttcc gct 573

<210> 111
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: D1

<400> 111
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gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatccccaa ggctcgccgg cccgagggta gggcctgggc tcagcccggg 240
taccccttggc ccctctatgg caacgagggc ttggggtggg caggatggct cctgtcaccc 300
cgcggctccc ggcctagttg gggccccacc gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat cccgctcgtc 420
ggcgcccccc taggggtgc tgccagggcc ctggcgcatg gcgtccgggt tctggaggac 480
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ttgctgtcct gtttgaccat cccagcttcc gct 573

<210> 112
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: US6

<400> 112
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatccccaa ggctcgccgg cccgagggca gggcctgggc tcagcccggg 240

taccettggc ccctctatgg caacgagggc atggggtggg caggatggct cctgtcaccc 300
cgtggctccc ggcctagttg gggccccacg gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc taggggcgc tgccagggcc ttggcgcatg gcgtccgggt tctggaggac 480
ggcgtgaact atgcaacagg gaacttgccc ggttgctctt tctctatctt cctcttggct 540
ttgctgtcct gtttgaccat tccagcttcc gct 573

<210> 113
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: P10

<400> 113
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatccccaa ggctcgccgg cccgagggca gggcctgggc tcagcccggg 240
taccettggc ccctctatgg caatgagggc ttggggtggg caggatggct cctgtcaccc 300
cgtggctctc ggcctagttg gggccccacg gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc taggggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaggac 480
ggcgtgaact atgcaacagg gaatctgccc ggttgctctt tctctatctt cctcttggct 540
ttgctgtcct gcctgaccat cccagcgtcc gct 573

<210> 114
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: DK1

<400> 114
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatccccaa ggctcgccgg cccgagggca gggcctgggc tcagcccggg 240
taccettggc ccctctatgg caatgagggc atggggtggg caggatggct cctgtcaccc 300
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aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc taggggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaggac 480
ggcgtgaact acgcaacagg gaatttgccc ggttgctctt tctctatctt cctcttggct 540
ctgttgtcct gtttgaccat cccagcttcc gcc 573

<210> 115
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T10

<400> 115
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacagc ctatccccaa ggctcgccag cccgagggca gggcctgggc tcagcccggg 240
taccccttggc ccctctatgg caatgagggc atggggtggg caggatggct cctgtcaccc 300
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aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
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ggcgtgaact atgcaacagg gaatttgccc ggttgctctt tttctatctt cctcttggct 540
ctgctgtctt gtctgaccat cccagcttcc gct 573

<210> 116
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SW2

<400> 116
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggccagatc gttggtggag tttacctgtt gccgcgcagg 120
ggcccccggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatccccaa ggctcgccag cccgagggca gggcctgggc tcagcctggg 240
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cgcggctctc ggcctagttg gggccccact gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc taggggcgc tgccagggcc ctggcgcatg gcgtccgggt cctggaggac 480
ggcgtgaact atgcaacagg gaatctgccc ggttgctcct tttctatctt cctcttggct 540
ttgctgtcct gtctgaccat cccagcttcc gct 573

<210> 117
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: IND3

<400> 117
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggccagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatccccaa ggctcgccgg cccgagggta gggcctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc ttggggtggg caggatggct cctgtcaccc 300
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ggcgcccccc taggggcgc tgccagggcc ctggcgcatg gcgtccgggt cctggaggac 480
ggcgtgaact atgcaacagg gaacttgccc ggttgctctt tctctatctt ccttttagct 540
ttgctatcct gtttgaccat cccagcttcc gct 573

<210> 118
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: IND8

<400> 118
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gacgtcaagt tcccgggcgg tggccagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatccccaa ggctcgccgg cccgagggta gggcctgggc tcagcccggg 240
caccccttggc ccctctatgg caatgagggc ttggggtggg caggatggct cctgtcaccc 300
cgcggctctc ggcctagttg gggccccaca gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat cccgctcgtc 420
ggcgcccccc taggggtgc tgccagggcc ctggcgcatg gcgtccgggt cctggaggac 480
ggcgtgaact atgcaacagg gaacttgccc ggttgctctt tctctatctt ccttttggct 540
ttgctatcct gtttgaccgt cccagcttcc gct 573

<210> 119
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: S9

<400> 119
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gacgttaagt tcccgggcgg tggtcagatc gtcggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcaactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatccccaa ggctcgccat cccgagggca gggcctgggc tcagcccggg 240
tacccttggc ccctctacgg caatgagggc ttggggtggg caggatggct cctgtcaccc 300
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aaggtcatcg ataccctcac atgcggcttt gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc taggggcgc tgccagggct ctggcgcatg gcgtccgggt tctggaggac 480
ggcgtgaact atgcaacagg gaacctcccc ggttgctctt tctctatctt ccttctggct 540
ttgctgtcct gtttgaccat cccagcttcc gct 573

<210> 120
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: HK3

<400> 120
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gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgaccagg aagacttcag agcggtcgca acctcgtgga 180
aggcgacaac ctatccccaa ggctcgccaa cccgagggca ggacctgggc tcagcccggg 240
tatccttggc ccctctatgg caacgagggc atggggtggg caggatggct cctgtcaccc 300
cgcggctctc ggcctaattg gggccccacg gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg ataccctcac gtgcggcttc gccgacctca tggggtacat cccgctcgtc 420
ggtgcccccc taggggcgt tgccagagcc ttggcacatg gtgtccgggt tctggaggac 480
ggcgtgaact atgcaacagg gaatttaccc ggttgctctt tctctatctt cctcttggct 540
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<210> 121
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: HK5

<400> 121
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ggccccaggt tgggtgtgcg cgcgaccagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatccccaa ggctcgccga cccgagggca ggacctgggc tcagcccggg 240
tatccttggc ccctctatgg caatgagggc atggggtggg caggatggct cctgtcaccc 300
catggctctc ggcctagttg gggccccacg gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac gtgcggcttc gccgacctca tggggtacat cccgctcgtc 420

ggcgcccccc taggggcgt tgccagagcc ctggcacacg gtgtccgggt tctggaggac 480
ggcgtgaact acgcaacagg gaatataccc ggttgctctt tctctatctt ccttttggct 540
ttgctgtcct gtctgaccac cccagtttcc gct 573

<210> 122
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: HK4

<400> 122
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gacgttaagt tcccgggcgg tggccagatc gtcggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatccccaa ggctcgccaa cccgagggca ggacctgggc tcagcccggg 240
taccccttggc ccctctatgg caatgagggc atggggtggg caggatggct cctgtcaccc 300
cgcggctctc ggcctagttg gggccccacg gacccccggc gtaggtcgcg caatttgggt 360
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ggcgcccccc taggggcgt tgccagagcc ctggcacatg gtgtccgggt tgtggaggac 480
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ctgctgtcct gtttgaccat cccagcttcc gct 573

<210> 123
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: P8

<400> 123
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gacgttaagt tcccgggcgg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcgatcgca acctcgtggc 180
aggcgacaac ctatccccaa ggctcgccgg cccgagggta gggcctgggc tcagcccggg 240
caccccttggc ccctctatgc caatgagggc ttggggtggg cgggatggct cctgtcaccc 300
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ggcgtgaact atgcaacagg gaatctgcct ggttgctctt tctctatctt cctttggct 540
ttgctgtctt gtctgaccat cccagcttcc gct 573

<210> 124

<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T3

<400> 124
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gacgttaagt tcccgggcgg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatccccaa ggctcgccgg cccgagggta gggcctgggc tcagcccggg 240
taccccttggc ccctctatgg cgacgagggc atggggtggg caggatggct cctgtcaccc 300
cgcggctccc ggcctaattg gggccccaca gacccccggc gtaggtcgcg taatctgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgctccct taggggcgt tgccagggcc ctggcgcatg gcgtccgggt tctggaggac 480
ggcgtgaatt acgcaacagg gaatttgcct ggttgctctt tctctatctt cctcttggct 540
ttgctgtcct gcttgaccat cccagcttcc gct 573

<210> 125
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T4

<400> 125
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gacgttaagt tcccgggcgg cggccagatc gttggcggag tatacttgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgacaagg aagacttcgg agcgatccca gccacgtggg 180
aggcgccagc ccatccccaa agatcggcgc tccactggca agtcctgggg aaaaccagga 240
tatccctggc ccctgtatgg gaatgaggga ctcggctggg caggatggct cctgtccccc 300
cgaggttccc gtccctcctg gggccccaat gacccccggc ataggtcgcg caacgtgggt 360
aaggtcatcg ataccctaac gtgcagcctt gccgacctca tggggtacgt ccccgtcgta 420
ggcggcccgt tgggtggcgt cgccagagct ctcgcgcatg gcgtgagagt cctggaggac 480
ggggttaatt atgcaacagg gaacttacct ggttgctcct tttctatttt cttgctggcc 540
ctactgtcct gcatcaccat tccagtctcc gct 573

<210> 126
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: US10

<400> 126
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gacgttaagt ttccgggcgg cggccagatc gttggcggag tatacttgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgacaagg aagacttcgg agcggtccca gccacgtggg 180
aggcgccagc ccatccccaa agatcggcgc cccactggca agtcctgggg aaaaccagga 240
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cgaggttccc gtccctcttg gggccccact gatccccggc ataggtcgcg caacgtgggt 360
aaggtcatcg ataccctaac gtgcggcttt gccgacctca tgggatacat ccccgtcgtg 420
ggcgctccgc ttggtggcgt cgccagagct ctcgcgcatg gcgtgagggt cctggaggac 480
ggggttaatt atgcaacagg gaacttaccc ggttgctcct tttctatctt cttgctggcc 540
ttactgtcct gcatcaccat tccagtctct gct 573

<210> 127
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T9

<400> 127
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gacgttaagt tcccgggcgg cggccagatc gttggcggag tatacttgtt gccgcgcagg 120
ggccctaggt tgggtgtgcg cacgacaagg aagacttcgg agcggtccca gccacgtggg 180
aggcgccagc ccatccccaa agatcggcgc tccactggca agtcctgggg aaaaccagga 240
taccctggc ctctatatgg gaatgaggga ctcggctggg cgggatggct cctgtccccc 300
cgaggttccc gtccctcttg gggccccagt gacccccggc ataggtcgcg caacgtgggt 360
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ggcgccccgc ttggtggcgt tgccagagct ctcgcgcacg gcgtgagagt cctggaggac 480
ggggttaatt atgcaacagg gaacctacct ggttgctctt tttctatctt cttgctggcc 540
ctactgtcct gcatcaccac tccggcctct gct 573

<210> 128
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T2

<400> 128
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gacgttaagt ttccgggcgg cggccagatc gttggcggag tatacttgct gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgacaagg aagacttcgg agcggtccca gcctcgtgga 180
aggcgccagc ccatccctaa agatcggcgc tccactggca agtcctgggg aaaaccagga 240

taccctggc ccctgtatgg gaatgagggg ctcggctggg caggatggct cctgtccccc 300
cgaggttctc gtccctcttg gggccccaat gacccccggc ataggtcgcg caatgtgggt 360
aaagtcatcg ataccctaac gtgcggcttt gccgacctca tggggtacat ccccgtcgta 420
ggcgccccgc ttggtggtgt cgccagagct cttgcgcatg gcgtgagagt cctggaggac 480
ggagttaatt atgcaacagg taacttaccc ggttgctcct tttctatctt cttgctagcc 540
ctgctgtcct gcatcactat tccggtttca gct 573

<210> 129
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T8

<400> 129
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gacgtcaagt tcccgggtgg cggccagatc gttggcggag tttacttgct gccgcgcagg 120
ggccctaggt tgggtgtgcg cgcgacaagg aagacttccg agcgatccca gccgcgtggg 180
agacgccagc ccatcccgaa agatcggcgc tccaccggca agtcctgggg aaaaccagga 240
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cgcgggtctc gtcctacttg gggccccact gacccccggc atagatcacg taatttgggc 360
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ggcgccccgg tcggaggcgt cgccagagct ctggcacatg gtgttagggt cctggaagac 480
gggataaact atgcaacagg gaatttgcct ggttgctctt tttctatctt cttgcttgct 540
cttctgtcat gcttcacagt gccagtgtct gca 573

<210> 130
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: US1

<400> 130
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gacgtcaagt tcccgggtgg cggtcagatc gttggcggag tttacttgct gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgacaagg aagacttccg agcgatccca gccgcgtggg 180
agacgccagc ccatcccgaa agatcggcgc tccaccggca agtcctgggg aaagccagga 240
tatccttggc ctctgtacgg aaacgagggc tgcggctggg caggttggct cctgtccccc 300
cgcgggtctc gtcctacttg gggccccact gacccccggc acagatcacg taacttgggc 360
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ggcgccccgg tcggaggcgt cgccagagct ctggcacacg gtgttagggt cctggaagac 480
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cttctgtcgt gcgccacggt gccggtgtct gca 573

<210> 131
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: DK11

<400> 131
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gacgttaagt tcccgggtgg cggccagatc gttggcggag tttacttgct gccgcgcagg 120
ggccccaggt tgggtgtgcg cacgacaagg aagacttccg agcgatccca gccgcgtggg 180
agacgccagc ccatcccgaa agatcggcgc tccaccggca agccctgggg aaagccagga 240
tatccttggc ccctgtatgg aaacgagggc tgcggctggg caggttggct cctgtccccc 300
cgcgggtctc atcctaattg gggccccact gacccccggc ataaatcacg caatttgggt 360
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ggcgccccgg tcggaggcgt cgccagagct ctggcacacg gtgttagagt cctggaagac 480
gggataaatt acgcaacagg gaatctgcct ggttgctctt tttctatctt cttacttgct 540
cttctgtcat gctgcacagt gccagtgtct gcg 573

<210> 132
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SW3

<400> 132
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gacgttaagt tcccgggtgg cggccagatc gttggcggag tttacttgct gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgacaagg aagacttccg agcgatccca gccgcgtggg 180
agacgccagc ccatcccgaa agatcggcgc tccaccggca agtcctgggg aaagccagga 240
tatccttggc ccctgtatgg aaacgagggc tgcggctggg caggttggct cctgtccccc 300
cgcgggtctc atcctaattg gggccccact gacccccggc atagatcacg caatttgggc 360
aaagtcatcg acaccattac gtgtggtttt gccgacctca tggggtacat ccctgtcgtt 420
ggcgccccgg tcggaggcgt cgccagagct ctggcacacg gtgttagagt cctggaagac 480
gggataaatt acgcaacagg gaatctgcct ggttgctctt tttctatctt cttacttgct 540
cttctgtcgt gcttcacagt gccagtgtct gcg 573

<210> 133
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: DK8

<400> 133
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gacgttaagt tcccgggtgg cggccagatc gttggcggag tttacttgct gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgacaagg aagtcttccg agcgatccca gccgcgtggg 180
aggcgccagc ccatcccgaa agatcggcgc tccaccggca agtcctgggg aaaaccggga 240
tatccttggc ccctgtatgg aaacgagggc tgcggctggg caggttggct cctgtccccc 300
cgcgggtctc gtcctacttg gggccccact gacccccggc atagatcacg caatttgggc 360
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ggcgccccgg ttggaggcgt cgccagagct ctggcacacg gtgttagggt cctggaagac 480
gggataaatt acgcaacagg gaatttgcct ggttgctctt tttctatctt cttgcttgct 540
cttctgtcgt gctgcacagt gccagtgtct gcg 573

<210> 134
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: S83

<400> 134
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gacgtcaagt tcccgggcgg tggccagatc gttggcggag tatacttgct gccgcgcagg 120
ggcccgagat tgggtgtgcg cgcgacgagg aaaacttccg aacggtccca gccacgtggg 180
aggcgccagc ccatccctaa agatcggcgc accactggca agtcctgggg aaggccagga 240
taccttggc ccctgtatgg gaatgagggc ctcggctggg cagggtggct cctgtccccc 300
cgcggttctc gcccttcatg gggccccacc gacccccggc ataaatcgcg caacttgggt 360
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ggcgctcccg ttggcggcgt tgccagagcc ctcgcccatg gggtgagggt tctggaggac 480
gggataaatt atgcaacggg gaatttgccc ggttgctctt tctctatctt tctcttggcc 540
ctcttgtctt gcatctctgt gccagtttcc gcc 573

<210> 135
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: HK10

<400> 135
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gacgttaagt tcccgggtgg cggacagatc gttggtggag tatacgtgtt gccgcgcagg 120
ggcccacgat tgggtgtgcg cgcgacgcgt aaaacttctg aacggtcgca gcctcgcgga 180
cgacgacagc ctatccccaa ggcgcgtcgg agcgaaggcc ggtcctgggc tcagcccggg 240
tacccttggc ccctctatgg taacgagggc tgcgggtggg caggatggct cctgtcccca 300
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gggataaatt tcgcaacagg gaacttgccc ggttgctcct tttctatctt ccttcttgct 540
ctgttctctt gcttaattca tccagcagct agt 573

<210> 136
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: S52

<400> 136
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gacgttaagt tcccgggtgg cggacagatc gttggtggag tatacgtgtt gccgcgcagg 120
ggcccacgat tgggtgtgcg cgcgacgcgt aaaacttctg aacggtcaca gcctcgcgga 180
cgacgacagc ctatccccaa ggcgcgtcgg agcgaaggcc ggtcctgggc tcagcccggg 240
tacccttggc ccctctatgg taatgagggc tgcgggtggg cagggtggct cctgtcccca 300
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ggcgctcccg taggaggcgt cgcaagagcc ctcgcgcatg gcgtgagggc ccttgaagac 480
gggataaatt ttgcaacagg gaacttgccc ggttgctcct tttctatctt ccttcttgct 540
ctgttctcct gcttagttca tcctgcagct agt 573

<210> 137
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: S2

<400> 137
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gacatcaagt tcccgggtgg cggacagatc gttggtggag tatacgtgtt gccgcgcagg 120
ggcccacgat tgggtgtgcg cgcgacgcgt aaaacttctg aacggtcaca gcctcgcgga 180
cggcgacagc ctatccccaa ggcgcgtcgg agcgaaggcc gatcctgggc tcagcccggg 240
tacccttggc ccctctatgg taacgagggc tgcgggtggg cagggtggct cctgtcccca 300
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ggcgctcccg taggaggcgt cgcaagagcc ctcgcgcatg gcgtgagggc ccttgaagac 480
gggataaatt ttgcaacagg gaacttgccc ggttgctctt tttctatctt ccttcttgcc 540
ctgttctctt gcttaattca tccagcagct agt 573

<210> 138
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: DK12

<400> 138
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gacgtcaagt tcccgggtgg cggacagatc gttggtggag tatacgtgtt gccgcgcagg 120
ggcccacgat tgggtgtgcg cgcgacgcgt aaaacttctg aacggtcaca gcctcgcgga 180
cggcgacagc ctatccccaa ggcgcgtcgg agcgaaggcc ggtcctgggc tcagcctggg 240
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aaggtcatcg ataccctcac gtgcggattc gccgacctca tggggtacat cccgctcgtc 420
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<210> 139
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: Z4

<400> 139
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gacgtaaagt tcccgggtgg tggccagatc gttggcggag tttacttgtt gccgcgcagg 120
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<210> 140

<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: Z8

<400> 140
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gatgtaaaat tcccaggcgg cggccagatc gttggcggag tttacttgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactcgg aagacttcgg agcggtcgca acctcgtggc 180
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cttctctcgt gcctaaccgt cccagcgtct gct 573

<210> 141
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: Z1

<400> 141
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gatgtgaaat tcccgggcgg cggccagatc gttggcggag tttacttgct gccgcgcagg 120
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taccccttggc ccctttacgg caatgagggc tgtgggtggg cagggtggct cctgtccccc 300
cgcggttcca ggccgtcttg gggccccaat gatccccggc gtaggtcccg taatctgggt 360
aaagtcatcg ataccctgac gtgtggcttc gccgacctca tgggatacat tccgctcgta 420
ggcgcccctg tgggtggcgt cgccagggcc ctggcgcatg gcgtcagggc cgtggaggac 480
ggaattaact acgcaacagg gaaccttcct ggttgctctt tctctatctt tcttcttgca 540
cttctctcgt gcctgacaac accagcatct gcc 573

<210> 142
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: Z5

<400> 142
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gatgtaaaat tcccgggtgg tggtcagatc gttggcggag tttacttgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactcgg aagacttcgg agcggtcgca acctcgcggc 180
aggcgtcagc ctatccccca ggcacgtcgg tccgagggca ggtcctgggc tcagcccggg 240
taccccttggc ctctttatgg caatgagggc tgtgggtggg cagggtggct cctgtccccc 300
cgcggatctc ggccatcttg gggccaaaat gatccccggc gtaggtcccg caatctgggt 360
aaggtcatcg ataccctgac gtgtggcttc gccgacctca tgggatacat tccgctcgtc 420
ggcgccccag taggtggcgt cgccagggcc ttggcgcatg gcgtcagggc cctggaggac 480
ggaatcaact atgcaacagg gaatcttcct ggttgctcct tttctatctt cctacttgca 540
cttttctcgt gcttgacaac accggcatcc gct 573

<210> 143
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: Z6

<400> 143
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgccccatg 60
gacgttaagt tcccgggtgg tggccagatc gttggcggag tttacttgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttcgg agcggtcgca acctcgtggg 180
agacgccagc ctatccccaa ggcacgtcga tctgagggaa ggtcctgggc tcagcccggg 240
tatccatggc ctctttacgg taatgagggt tgcgggtggg cgggatggct cctgtcaccc 300
cgtggctctc gaccgtcttg gggtccaaat gatccccggc gaaggtcccg caacttgggt 360
aaggtcatcg atactctaac ttgcggtttc gccgatctca tgggatacat cccgctcgta 420
ggcgcccccg tgggcggcgt cgccagggcc ctggcacatg gtgttagggc tgtggaggac 480
gggatcaatt atgcaacagg gaatcttccc ggttgctctt tctctatctt cctcttggca 540
cttctttcgt gcctaactgt tcccacctcg gcc 573

<210> 144
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: Z7

<400> 144
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgccccatg 60
gacgttaagt tcccgggcgg tggccagatc gttggcggag tttacttgtt gccgcgcagg 120
ggccccagat tgggtgtgcg cacaactagg aagacttcgg agcggtcgca acctcgtggg 180
agacgtcagc ctatccccaa ggcacgtcga tctgagggaa ggtcctgggc tcaacccggg 240

tacccatggc ctctttacgg taacgagggt tgcgggtggg caggatggct cttgtcaccc 300
cgtggctctc gaccgtcttg gggcccaaat gatccccggc gaaggtcccg caacttgggt 360
aaggtcatcg ataccctaac ctgcggcttt gccgacctca tgggatacat cccgctcgta 420
ggcgcccccg tgggcggcgt cgccagggcc ctagcgcatg gcgttagggc tctggaggac 480
gggattaatt atgcaacagg gaaccttccc ggttgctctt tttctatctt cctcttggca 540
cttctttcgt gcctgactgt tcccgcctcg gcc 573

<210> 145
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: DK13

<400> 145
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccaatg 60
gacgttaagt tcccgggtgg cggccagatc gttggcggag tttacttgtt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgactagg aagacttcgg agcggtcgca acctcgtggg 180
aggcgccagc ctatccccaa ggcgcgccaa ctcgagggta ggtcctgggc tcagcctggg 240
tatccttggc ccctttacgg caatgagggc tgcgggtggg cgggatggct cctgtcaccc 300
cgtggctctc ggccgtcttg gggcccgaat gatccccggc ggaggtcccg caacttgggt 360
aaggtcatcg ataccctaac ttgcggcttc gccgacctca tgggatacat cccggtcgta 420
ggcgcccccg tgggtggcgt cgccagagcc ctggcgcatg gcgtcaggct tctggaggac 480
ggggtcaatt atgcaacagg gaatcttccc ggttgctctt tctctatctt cctcttggca 540
ctgctctcgt gcctgactgt tcccgcttcg gcc 573

<210> 146
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA4

<400> 146
atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg ccgcccacag 60
gacgttaagt tcccgggcgg tggtcagatc gttggtggag tctacttgtt gccgcgcagg 120
ggccctaggt tgggtgtgcg cgcgactcgg aagacttcag aacggtcgca accccgtggg 180
cggcgccagc ctattcccaa ggcgcgccaa cccacgggcc ggtcctgggg tcaacccggg 240
taccttggc ccctttacgc caatgagggc ctcgggtggg cagggtggtt gctctccccc 300
cgaggctctc ggcctaattg gggccccaat gacccccggc gaaagtcgcg caatttgggt 360
aaggtcatcg ataccctaac gtgcggattc gccgacctca tggggtacat cccgctcgta 420
ggcggccccg ttgggggcgt cgcaagggcc cttgcacatg gtgtgagggt tcttgaggac 480
ggggtaaact atgcaacggg gaatttgccc ggttgctctt tctctatctt tatccttgca 540
cttctctcgt gcctgaccgt cccggcctct gca 573

<210> 147
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA5

<400> 147
atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacttgtt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgactcgg aagacttcag aacggtcgca accccgtggg 180
cggcgccagc ctattcccaa ggcgcgccaa cccacgggcc ggtcctgggg tcaacccggg 240
taccccttggc ccctttacgc caatgagggc ctcgggtggg cagggtggtt gctctccccc 300
cgaggctctc ggcctaattg gggccccaat gacccccggc gaaaatcgcg caatttgggt 360
aaggtcatcg ataccctaac gtgcggattc gccgacctca tggggtacat cccgctcgta 420
ggcggccccg ttgggggcgt cgcaagggcc ctcgcacatg gtgtgagggt tcttgaggac 480
ggggtaaact atgcaacagg gaatttgccc ggttgctctt tctctatctt tatccttgca 540
cttctctcgt gcttgaccgt cccagcctct gca 573

<210> 148
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA7

<400> 148
atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacttgtt gccgcgcagg 120
ggccctaggt tgggtgtgcg cgcgactcgg aagacttcag aacggtcgca accccgtggg 180
cggcgccagc ctattcccaa ggcgcgccaa cccacgggcc ggtcctgggg tcaacccggg 240
taccccttggc ccctttacgc caatgagggc ctcgggtggg cagggtggtt gctctccccc 300
cgaggctctc ggcctaattg gggccccaat gacccccggc gaaagtcgcg caatttgggt 360
aaggtcatcg acaccctaac atgcggattc gccgacctca tggggtacat cccgctcgta 420
ggcggccccg ttgggggcgt cgcaagggct ctcgcacacg gtgtgagggt tcttgaggac 480
ggggtaaatt acgcaacagg gaatctgccc ggttgctctt tctctatctt tatccttgca 540
cttctctcgt gcctgaccgt cccagcctcc gca 573

<210> 149
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA1

<400> 149
atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaacct ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacttgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactcgg aagacttcgg aacggtcgca accccgtggg 180
cggcgccagc ctattcccaa ggcgcgccaa cccacgggcc ggtcctgggg tcaacccggg 240
taccccttggc ccctttacgc caatgagggc ctcgggtggg cagggtggtt gctctccccc 300
cgaggctctc ggcctaattg gggccccaat gacccccggc ggaagtcgcg caatttgggt 360
aaggtcatcg ataccctaac gtgcggattc gccgacctca tggggtacat cccgctcgta 420
ggcggccccg ttgggggcgt cgcaagggct ctcgcacacg gtgtgagggt tcttgaggac 480
ggggtaaact acgcaacagg gaatttgccc ggttgctctt tctctatctt tatccttgca 540
cttctttcct gtctgatcat cccggcctct gca 573

<210> 150
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA3

<400> 150
atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacttgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactcgg aagacttcag aacggtcgca accccgtgga 180
cggcgccagc ctattcccaa ggctcgccag cccacgggcc ggtcctgggg tcaacccggg 240
taccccttggc ccctttacgc caatgagggc ctcgagtggg cagggtggtt gctctccccc 300
cgaggctctc ggcctagttg gggccccaac gacccccggc ggaaatcgcg caatttgggt 360
aaggtcatcg ataccctaac gtgcggattc gccgatctca tggggtacat cccgctcgta 420
ggcggccccg ttgggggcgt cgcaagggct ctcgcacatg gtgtgagggt tcttgaggac 480
ggggtaaact acgcaacagg gaatttaccc ggttgctctt tctctatctt tatccttgca 540
cttctttcat gcctgaccgt cccggcctct gca 573

<210> 151
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA13

<400> 151
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gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacttgtt gccgcgcagg 120
ggccctaggt tgggtgtgcg cgcaactcgg aagacttcag aacggtcgca accccgtgga 180
cggcgtcagc ctatccccaa ggcgcgccag cccacgggcc ggtcctgggg tcaacccggg 240
taccccttggc ccctttatgc caatgagggc ctcgggtggg cagggtggtt gctctccccc 300
cgaggctctc ggcctaattg gggccccaat gacccccggc ggaaatcgcg caacttgggt 360
aaggtcatcg ataccctgac gtgcggattc gccgacctca tggggtacat cccgctcgta 420
ggcggccccg ttgggggcgt cgcaagggct ctcgcacacg gtgtgagggt ccttgaggac 480
ggggtaaact atgcaacagg gaatttaccc ggttgctctt tctctatctt tatccttgca 540
cttctttcat gcctgactgt cccgacctct gcc 573

<210> 152
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA6

<400> 152
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gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacttgtt gccgcgcagg 120
ggccctcgta tgggtgtgcg cgcgactcgg aagacttcgg aacggtcgca accccgtgga 180
cggcgtcagc ctattcccaa ggcgcgccaa tccgcgggtc ggtcctgggg tcaacccggg 240
taccccttggc ccctttacgc caatgagggc ctcgggtggg cagggtggtt gctctccccc 300
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aaggtcatcg ataccctaac gtgcggattc gccgacctca tggggtacat cccgctcgta 420
ggcggccccg ttgggggcgt cgcaagggct ctcgcacacg gtgtgagggt tcttgaggac 480
ggggtaaact atgcaacagg gaatttgccc ggttgctctt tctctatctt tgtccttgca 540
cttctctcgt gcctaaccgt ccctgcctct gca 573

<210> 153
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA11

<400> 153
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gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacttgtt gccgcgcagg 120
ggccctaggt tgggtgtgcg cgcgactcgg aagacttcag aacggtcgca accccgtggg 180
cggcgtcagc ctattcccaa ggcgcgccaa cccacgggcc ggtcctgggg tcaacccggg 240
taccccttggc ccttttacgc caatgagggc ctcgggtggg cagggtggct gctctcccct 300
cgaggctctc ggcctaactg gggccccaat gacccccggc gaagatcgcg caatttgggc 360
aaggtcatcg ataccctaac gtgcggattc gccgacctca tggggtacat cccgctcgta 420

ggcggccccg ttgggggcgt cgcaagggcc ctcgcacacg gtgtgagagc tcttgaggac 480
ggggtaaatt atgcaacagg gaatcttccc ggttgctctt tctccatctt tatccttgca 540
cttctctcgt gcttgaccgt cccggccact gca 573

<210> 154
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: HK2

<400> 154
atgagcacac ttccaaaacc ccaaagaaaa accaaaagaa acaccaaccg tcgcccaacg 60
gacgtcaagt tcccgggtgg cggtcagatc gttggcggag tttacttgtt gccgcgcagg 120
ggcccccggt tgggtgtgcg cgcgacgaga aagacttccg agcgatccca gcccagaggc 180
aggcgccaac ctataccaaa ggcgcgccag ccccagggca ggcactgggc tcagcccgga 240
taccttggc ctctttatgg aaacgagggc tgtgggtggg caggttggct cctgtccccc 300
cgcggctccc ggccacattg gggccccaat gacccccggc gtcgatcccg gaatttgggt 360
aaggtcatcg ataccctaac gtgtgggttc gccgatctca tggggtacat tcccgtcgtg 420
ggcgcgcctt tgggcggcgt cgcggctgcg ctcgcacatg gcgtgagggc aatcgaggac 480
gggatcaatt atgcaacagg gaatctcccc ggttgctctt tctctatctt ccttttggca 540
ctactctcgt gcctcacaac gccagcttcg gct 573

<210> 155
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: DK7

<400> 155
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Pro Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly

```
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
            180                 185                 190


<210> 156
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  US11

<400> 156
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
 65                  70                  75                  80
```

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Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
            180                 185                 190
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<210> 157
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: S14

<400> 157

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Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
            20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
        35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
    50                  55                  60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                85                  90                  95
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Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
            180                 185                 190
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<210> 158
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SW1

<400> 158

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Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
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            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
            180                 185                 190


<210> 159
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  S18

<400> 159
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
            100                 105                 110
```

```
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
            180                 185                 190


<210> 160
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  DR4

<400> 160
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125
```

```
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
            180                 185                 190
```

<210> 161
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SA10

<400> 161

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Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
```

```
    130                 135                 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Pro Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
            180                 185                 190


<210> 162
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  S45

<400> 162
Met Ser Thr Asn Pro Lys Pro Gln Arg Ala Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
 65                  70                  75                  80

His Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
    130                 135                 140
```

```
Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
            180                 185                 190
```

<210> 163
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: D1

<400> 163

```
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160
```

```
Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
            180                 185                 190


<210> 164
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: US6

<400> 164
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
```

```
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
            180                 185                 190


<210> 165
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: P10

<400> 165
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175
```

```
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
            180                 185                 190


<210> 166
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  DK1

<400> 166
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
            180                 185                 190
```

<210> 167
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: T10

<400> 167
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
180 185 190

<210> 168
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SW2

<400> 168
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
180 185 190

<210> 169
<211> 191

<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: IND3

<400> 169
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
180 185 190

<210> 170
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: IND8

<400> 170
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80

His Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 171
<211> 191
<212> PRT
<213> Homo sapiens

<220>

<223> Individual Isolate: S9

<400> 171

```
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg His Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
            180                 185                 190
```

<210> 172
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: HK3

<400> 172
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Thr Pro Ala Ser Ala
180 185 190

<210> 173
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: HK5

<400> 173
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn

```
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro His Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Ile Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Thr Pro Val Ser Ala
            180                 185                 190


<210> 174
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  HK4

<400> 174
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15
```

```
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
            20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
        35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
    50                  55                  60

Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Val Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
            180                 185                 190
```

<210> 175
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: P8

<400> 175

```
Met Ser Thr Thr Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ser
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
            20                  25                  30
```

```
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
 65                  70                  75                  80

His Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Leu
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Val Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
            180                 185                 190
```

<210> 176
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: T3

<400> 176

```
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
```

```
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asp Glu Gly Met Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
            180                 185                 190


<210> 177
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  T4

<400> 177
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45
```

```
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Ser Leu Ala Asp Leu Met Gly Tyr Val Pro Val Val Gly Gly Pro Leu
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Ile Pro Val Ser Ala
            180                 185                 190
```

<210> 178
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: US10

<400> 178

```
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60
```

```
Ile Pro Lys Asp Arg Arg Pro Thr Gly Lys Ser Trp Gly Lys Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Ile Pro Val Ser Ala
            180                 185                 190


<210> 179
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  T9

<400> 179
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Ile Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Thr
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
```

```
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Ser Asp Pro
            100                 105                 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Thr Pro Ala Ser Ala
            180                 185                 190


<210> 180
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  T2

<400> 180
Met Ser Thr Ile Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
 65                  70                  75                  80
```

```
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Ile Pro Val Ser Ala
            180                 185                 190


<210> 181
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  T8

<400> 181
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                 85                  90                  95
```

```
Leu Leu Ser Pro Arg Gly Ser Arg Pro Thr Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg His Arg Ser Arg Asn Leu Gly Arg Val Ile Asp Thr Ile Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Phe Thr Val Pro Val Ser Ala
            180                 185                 190
```

<210> 182
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: US1

<400> 182

```
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Thr Trp Gly Pro Thr Asp Pro
```

```
            100                 105                 110

Arg His Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Ile Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Ala Thr Val Pro Val Ser Ala
            180                 185                 190


<210> 183
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  DK11

<400> 183
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Thr
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Pro Trp Gly Lys Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser His Pro Asn Trp Gly Pro Thr Asp Pro
            100                 105                 110
```

```
Arg His Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Ile Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Cys Thr Val Pro Val Ser Ala
            180                 185                 190


<210> 184
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  SW3

<400> 184
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser His Pro Asn Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg His Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Ile Thr Cys
        115                 120                 125
```

```
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Phe Thr Val Pro Val Ser Ala
            180                 185                 190


<210> 185
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  DK8

<400> 185
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Ser Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Thr Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg His Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Ile Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val
```

```
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Cys Thr Val Pro Val Ser Ala
            180                 185                 190


<210> 186
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  S83

<400> 186
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Asp Arg Arg Thr Thr Gly Lys Ser Trp Gly Arg Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg His Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val
    130                 135                 140
```

```
Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Ser Val Pro Val Ser Ala
            180                 185                 190
```

<210> 187
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: HK10

<400> 187

```
Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145                 150                 155                 160
```

```
Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Ile His Pro Ala Ala Ser
            180                 185                 190


<210> 188
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  S52

<400> 188
Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145                 150                 155                 160

Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
```

```
                165                 170                 175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Val His Pro Ala Ala Ser
            180                 185                 190


<210> 189
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  S2

<400> 189
Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile
  1               5                  10                  15

Arg Arg Pro Gln Asp Ile Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145                 150                 155                 160

Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175
```

```
Phe Leu Leu Ala Leu Phe Ser Cys Leu Ile His Pro Ala Ala Ser
            180                 185                 190


<210> 190
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  DK12

<400> 190
Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145                 150                 155                 160

Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Ile His Pro Ala Ala Ser
            180                 185                 190
```

<210> 191
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: Z4

<400> 191
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Ile Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Val Glu Asp
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 192
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: Z8

<400> 192
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Val Glu Asp
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 193
<211> 191

<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: Z1

<400> 193
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Ala Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Val Glu Asp
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Thr Pro Ala Ser Ala
180 185 190

<210> 194
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: Z5

<400> 194
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Gln Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Gln Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Thr Thr Pro Ala Ser Ala
180 185 190

<210> 195
<211> 191
<212> PRT
<213> Homo sapiens

<220>

<223> Individual Isolate: Z6

<400> 195

```
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Val Glu Asp
145                 150                 155                 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Thr Ser Ala
            180                 185                 190
```

<210> 196
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: Z7

<400> 196
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Thr
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 197
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: DK13

<400> 197
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn

```
  1               5                  10                  15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Gln Leu Glu Gly Arg Ser Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Leu Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
            180                 185                 190


<210> 198
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  SA4

<400> 198
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15
```

```
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
            20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
        35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
    50                  55                  60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly
65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
            180                 185                 190


<210> 199
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  SA5

<400> 199
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
            20                  25                  30
```

```
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
            180                 185                 190


<210> 200
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  SA7

<400> 200
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
```

```
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
            180                 185                 190
```

<210> 201
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SA1

<400> 201

```
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Leu Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45
```

```
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Ile Ile Pro Ala Ser Ala
            180                 185                 190


<210> 202
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate:  SA3

<400> 202
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60
```

```
Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Glu Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
            180                 185                 190
```

<210> 203
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SA13

<400> 203

```
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly
```

```
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Thr Ser Ala
            180                 185                 190
```

<210> 204
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SA6

<400> 204

```
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Gln Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Met Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Gln Ser Ala Gly Arg Ser Trp Gly Gln Pro Gly
 65                  70                  75                  80
```

```
Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Val Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
            180                 185                 190
```

<210> 205
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SA11

<400> 205

```
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Phe Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
                 85                  90                  95
```

```
Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Thr Ala
            180                 185                 190
```

<210> 206
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: HK2

<400> 206

```
Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Thr Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Gln Pro Gln Gly Arg His Trp Ala Gln Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro His Trp Gly Pro Asn Asp Pro
```

```
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Leu
    130                 135                 140

Gly Gly Val Ala Ala Ala Leu Ala His Gly Val Arg Ala Ile Glu Asp
145                 150                 155                 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Thr Pro Ala Ser Ala
            180                 185                 190
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<210> 207
<211> 40
<212> DNA
<213> Homo sapiens

<400> 207
gcgtccgggt tctggaagac ggcgtgaact atgcaacagg 40

<210> 208
<211> 40
<212> DNA
<213> Homo sapiens

<400> 208
aggctttcat tgcagttcaa ggccgtgcta ttgatgtgcc 40

<210> 209
<211> 40
<212> DNA
<213> Homo sapiens

<400> 209
aagacggcgt gaactatgca acagggaacc ttcctggttg 40

<210> 210
<211> 40
<212> DNA

<213> Homo sapiens

<400> 210
agttcaaggc cgtgctattg atgtgccaac tgccgttggt 40

<210> 211
<211> 40
<212> DNA
<213> Homo sapiens

<400> 211
aagacggcgt gaattctgca acagggaacc ttcctggttg 40

<210> 212
<211> 40
<212> DNA
<213> Homo sapiens

<400> 212
agttcaaggc cgtggaattc atgtgccaac tgccgttggt 40

<210> 213
<211> 42
<212> DNA
<213> Homo sapiens

<400> 213
arctycgacg tyacatcgay ctgctygtyg gragygccac cc 42

<210> 214
<211> 31
<212> DNA
<213> Homo sapiens

<400> 214
rcargccrtc ttggayatga tcgctggwgc y 31

<210> 215
<211> 42
<212> DNA
<213> Homo sapiens

<400> 215

cratacgacr ycaygtcgay ttgctcgttg gggcggctry yt 42

<210> 216
<211> 31
<212> DNA
<213> Homo sapiens

<400> 216
rcaagctrtc rtggayrtgg trrcrggrgc c 31

<210> 217
<211> 40
<212> DNA
<213> Homo sapiens

<400> 217
ttgcggackc acatygacat ggtygtgatg tccgccacgc 40

<210> 218
<211> 43
<212> DNA
<213> Homo sapiens

<400> 218
gatgcgcgtt cccgaggtca tcwtagacat crtyrgcggr gcd 43

<210> 219
<211> 54
<212> DNA
<213> Homo sapiens

<400> 219
aatggcaccy tgcrctgctg gatacaagtr acacctaatg tggctgtgaa acac 54

<210> 220
<211> 31
<212> DNA
<213> Homo sapiens

<400> 220
tgarctagyc ctysargtyg tcttcggygg y 31

<210> 221
<211> 54
<212> DNA
<213> Homo sapiens

<400> 221
gccaacgtct ctcgatgttg ggtgccggtt gcccccaatc tcgccataag tcaa 54

<210> 222
<211> 46
<212> DNA
<213> Homo sapiens

<400> 222
aagggcctgc gagcacacat cgatatcatc gtgatgtctg ctacgg 46

<210> 223
<211> 45
<212> DNA
<213> Homo sapiens

<400> 223
ttggtgcgca tcccggaagt catcttggat attgttacag gaggt 45

<210> 224
<211> 40
<212> DNA
<213> Homo sapiens

<400> 224
agtcaggtay gtcggagcaa ccaccgcytc gatacgcagt 40

<210> 225
<211> 46
<212> DNA
<213> Homo sapiens

<400> 225
agccttcacg ttcagacckc gtcgccatca aacrgtccag acctgt 46

<210> 226
<211> 75
<212> DNA

<213> Homo sapiens

<400> 226
tcccccgcyg tgggtatggt ggtrgcgcac rtyctgcgdy tgccccagac cktgttygac 60
atamtrgcyg gggcc 75

<210> 227
<211> 39
<212> DNA
<213> Homo sapiens

<400> 227
acgccggtga cgcctacagt ggctgtcgca cacccgggc 39

<210> 228
<211> 42
<212> DNA
<213> Homo sapiens

<400> 228
atgagggtcc ccacagcctt tctcgacatg gttgccggag gc 42

<210> 229
<211> 40
<212> DNA
<213> Homo sapiens

<400> 229
cgcgccctat cccaacgcac cgttagagtc catgcgcagg 40

<210> 230
<211> 49
<212> DNA
<213> Homo sapiens

<400> 230
tcagatctta cggatcccct ctatcctagg tgacttgctc accgggggt 49

<210> 231
<211> 54
<212> DNA
<213> Homo sapiens

<400> 231
cagtcacgct gctgggtggc ccttactccc accgtggcgg ygycttatat cggt 54

<210> 232
<211> 31
<212> DNA
<213> Homo sapiens

<400> 232
tagcactctg gtrgayctac tcrctggagg g 31

<210> 233
<211> 54
<212> DNA
<213> Homo sapiens

<400> 233
aagtctacat gctgggtgtc tctcaccccc accgtggctg cgcaacatct gaat 54

<210> 234
<211> 31
<212> DNA
<213> Homo sapiens

<400> 234
aggcgccatg gtcgacctgc ttgcaggcgg c 31

<210> 235
<211> 43
<212> DNA
<213> Homo sapiens

<400> 235
tcagccccga vyytcggagc ggtcacggct cctcttcgga ggg 43

<210> 236
<211> 44
<212> DNA
<213> Homo sapiens

<400> 236
tgytacggat yccccargtg gtcathgaca tcatwgccgg ggsc 44

<210> 237
<211> 40
<212> DNA
<213> Homo sapiens

<400> 237
cataccaaat gcttccacgc ccgcaacggg attccgcagg 40

<210> 238
<211> 37
<212> DNA
<213> Homo sapiens

<400> 238
tcttcttgcg ggcgccgcag tggtttgctc atccctg 37

<210> 239
<211> 52
<212> DNA
<213> Homo sapiens

<400> 239
atctagcatc ttgagggtac ctgagatttg tgcgagtgtg atatttggtg gc 52

<210> 240
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)..)
<223> "Ala" or "Thr"

<220>
<221> SITE
<222> (24)..)
<223> "Val" or "Ile"

<220>
<221> SITE
<222> (26)
<223> "Val" or "Met"

<400> 240
Trp Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu
1 5 10 15

Thr His Asn Leu Arg Xaa His Xaa Asp Xaa Ile Val Met Ala Ala Thr
20 25 30

Val

<210> 241
<211> 33
<212> PRT
<213> Homo sapiens

<400> 241
Trp Val Pro Val Ala Pro Asn Leu Ala Ile Ser Gln Pro Gly Ala Leu
1 5 10 15

Thr Lys Gly Leu Arg Ala His Ile Asp Ile Ile Val Met Ser Ala Thr
20 25 30

Val

<210> 242
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> "Ser" or "Thr"

<220>
<221> SITE
<222> (11)
<223> "Arg" or "Gln"

<220>
<221> SITE
<222> (12)
<223> "Arg" or "Gln"

<400> 242

Trp Ile Pro Val Xaa Pro Asn Val Ala Val Xaa Xaa Pro Gly Ala Leu
1 5 10 15

Thr Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr
20 25 30

Leu

<210> 243
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> "Pro" or "Ser"

<220>
<221> SITE
<222> (33)
<223> "Leu" or "Met"

<400> 243
Trp Thr Xaa Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr
1 5 10 15

Thr Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr
20 25 30

Xaa

<210> 244
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> "Thr" or "Ala"

<220>
<221> SITE

<222> (13)
<223> "Gly" or "Ala" or "Ser" or "Val" or "Thr"

<220>
<221> SITE
<222> (14)
<223> "Ser" or "Thr" or "Asn"

<220>
<221> SITE
<222> (15)
<223> "Val" or "Ile"

<220>
<221> SITE
<222> (16)
<223> "Pro" or "Ser"

<220>
<221> SITE
<222> (18)
<223> "Thr" or "Lys"

<220>
<221> SITE
<222> (19)
<223> "Thr" or "Ala"

<220>
<221> SITE
<222> (22)
<223> "Arg" or "His"

<220>
<221> SITE
<222> (32)
<223> "Ala" or "Val" or "Thr"

<400> 244
Trp Val Ala Leu Xaa Pro Thr Leu Ala Ala Arg Asn Xaa Xaa Xaa Xaa
  1   5   10   15

Thr Xaa Xaa Ile Arg Xaa His Val Asp Leu Leu Val Gly Ala Ala Xaa
             20   25   30

Phe

<210> 245
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> "Ala" or "Pro"

<220>
<221> SITE
<222> (4)
<223> "Val" or "Met"

<220>
<221> SITE
<222> (5)
<223> "Thr" or "Ala"

<220>
<221> SITE
<222> (17)
<223> "Thr" or "Ala"

<220>
<221> SITE
<222> (18)
<223> "Thr" or "Ala"

<220>
<221> SITE
<222> (23)
<223> "His" or "Tyr"

<400> 245
Trp Val Xaa Xaa Xaa Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro
1 5 10 15

Xaa Xaa Gln Leu Arg Arg Xaa Ile Asp Leu Leu Val Gly Ser Ala Thr
20 25 30

Leu

<210> 246

<211> 33
<212> PRT
<213> Homo sapiens

<400> 246
Trp Thr Pro Val Thr Pro Thr Val Ala Val Ala His Pro Gly Ala Pro
1 5 10 15

Leu Glu Ser Phe Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr
20 25 30

Leu

<210> 247
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> "Val" or "Ala"

<220>
<221> SITE
<222> (11)
<223> "Ser" or "Pro"

<220>
<221> SITE
<222> (18)
<223> "Asp" or "Glu"

<220>
<221> SITE
<222> (20)
<223> "Leu" or "Ile"

<400> 247
Trp Val Ala Leu Thr Pro Thr Val Ala Xaa Xaa Tyr Ile Gly Ala Pro
1 5 10 15

Leu Xaa Ser Xaa Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr
20 25 30

Val

<210> 248
<211> 33
<212> PRT
<213> Homo sapiens

<400> 248
Trp Val Ser Leu Thr Pro Thr Val Ala Ala Gln His Leu Asn Ala Pro
1 5 10 15

Leu Glu Ser Leu Arg Arg His Val Asp Leu Met Val Gly Gly Ala Thr
20 25 30

Leu

<210> 249
<211> 33
<212> PRT
<213> Homo sapiens

<400> 249
Trp Val Pro Leu Thr Pro Thr Val Ala Ala Pro Tyr Pro Asn Ala Pro
1 5 10 15

Leu Glu Ser Met Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr
20 25 30

Met

<210> 250
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> "Gln" or "His"

<220>
<221> SITE
<222> (12)

<223> "Asn" or "Ser" or "Thr"

<220>
<221> SITE
<222> (13)
<223> "Leu" or "Phe"

<220>
<221> SITE
<222> (23)
<223> "Ala" or "Val"

<400> 250
Trp Val Xaa Ile Thr Pro Thr Leu Ser Ala Pro Xaa Xaa Gly Ala Val
1 5 10 15

Thr Ala Pro Leu Arg Arg Xaa Val Asp Tyr Leu Ala Gly Gly Ala Ala
20 25 30

Leu

<210> 251
<211> 33
<212> PRT
<213> Homo sapiens

<400> 251
Trp His Ala Val Thr Pro Thr Leu Ala Ile Pro Asn Ala Ser Thr Pro
1 5 10 15

Ala Thr Gly Phe Arg Arg His Val Asp Leu Leu Ala Gly Ala Ala Val
20 25 30

Val

<210> 252
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> "Val" or "Ala"

<220>
<221> SITE
<222> (18)
<223> "Glu" or "Gln"

<400> 252
Thr Leu Thr Met Ile Leu Ala Tyr Ala Ala Arg Val Pro Glu Leu Xaa
1 5 10 15

Leu Xaa Val Val Phe Gly Gly
20

<210> 253
<211> 23
<212> PRT
<213> Homo sapiens

<400> 253
Thr Thr Thr Met Leu Leu Ala Tyr Leu Val Arg Ile Pro Glu Val Ile
1 5 10 15

Leu Asp Ile Val Thr Gly Gly
20

<210> 254
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> "Ala" or "Thr"

<220>
<221> SITE
<222> (4)
<223> "Met" or "Leu"

<220>
<221> SITE
<222> (9)
<223> "Ala" or "Val"

<220>

<221> SITE
<222> (17)
<223> "Ile" or "Leu"

<220>
<221> SITE
<222> (20)
<223> "Ile" or "Val"

<220>
<221> SITE
<222> (21)
<223> "Ser" or "Gly"

<400> 254
Thr Xaa Thr Xaa Ile Leu Ala Tyr Xaa Met Arg Val Pro Glu Val Ile
1 5 10 15

Xaa Asp Ile Xaa Xaa Gly Ala
20

<210> 255
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> "Val" or "Ile"

<220>
<221> SITE
<222> (16)
<223> "Leu" or "Val"

<220>
<221> SITE
<222> (20)
<223> "Ile" or "Leu"

<400> 255
Ala Val Gly Met Val Val Ala His Xaa Leu Arg Leu Pro Gln Thr Xaa
1 5 10 15

Phe Asp Ile Xaa Ala Gly Ala
20

<210> 256
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> "Ala" or "Thr"

<220>
<221> SITE
<222> (6)
<223> "Val" or "Leu"

<220>
<221> SITE
<222> (12)
<223> "Ile" or "Leu"

<220>
<221> SITE
<222> (16)
<223> "Val" or "Ile"

<220>
<221> SITE
<222> (17)
<223> "Val" or "Leu" or "Met"

<220>
<221> SITE
<222> (19)
<223> "Met" or "Val"

<220>
<221> SITE
<222> (21)
<223> "Ala" or "Thr"

<400> 256
Thr Xaa Ala Leu Val Xaa Ser Gln Leu Leu Arg Xaa Pro Gln Ala Xaa
1 5 10 15

Xaa Asp Xaa Val Xaa Gly Ala
20

<210> 257
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> "Thr" or "Ala"

<220>
<221> SITE
<222> (6)
<223> "Val" or "Ile" or "Met"

<220>
<221> SITE
<222> (12)
<223> "Ile" or "Val"

<220>
<221> SITE
<222> (16)
<223> "Ile" or "Val"

<400> 257
Thr Xaa Ala Leu Val Xaa Ala Gln Leu Leu Arg Xaa Pro Gln Ala Xaa
1 5 10 15

Leu Asp Met Ile Ala Gly Ala
20

<210> 258
<211> 23
<212> PRT
<213> Homo sapiens

<400> 258
Thr Thr Thr Leu Leu Leu Ala Gln Ile Met Arg Val Pro Thr Ala Phe
1 5 10 15

Leu Asp Met Val Ala Gly Gly
20

<210> 259
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> "Leu" or "Val"

<220>
<221> SITE
<222> (21)
<223> "Thr" or "Ala"

<400> 259
Thr Thr Thr Leu Xaa Leu Ala Gln Val Met Arg Ile Pro Ser Thr Leu
1 5 10 15

Val Asp Leu Leu Xaa Gly Gly
20

<210> 260
<211> 23
<212> PRT
<213> Homo sapiens

<400> 260
Thr Ala Thr Leu Val Leu Ala Gln Leu Met Arg Ile Pro Gly Ala Met
1 5 10 15

Val Asp Leu Leu Ala Gly Gly
20

<210> 261
<211> 23
<212> PRT
<213> Homo sapiens

<400> 261
Thr Ser Ala Leu Ile Met Ala Gln Ile Leu Arg Ile Pro Ser Ile Leu
1 5 10 15

Gly Asp Leu Leu Thr Gly Gly
20

<210> 262
<211> 23
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<223> "Leu" or "Met" or "Val"

<220>
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<223> "Gly" or "Ala"

<400> 262
Xaa Thr Ala Leu Xaa Met Ala Gln Xaa Leu Arg Ile Pro Gln Val Val
1 5 10 15

Ile Asp Ile Ile Ala Gly Xaa
20

<210> 263
<211> 23
<212> PRT
<213> Homo sapiens

<400> 263
Thr Thr Thr Leu Val Leu Ser Ser Ile Leu Arg Val Pro Glu Ile Cys
1 5 10 15

Ala Ser Val Ile Phe Gly Gly
20

<210> 264

<211> 191
<212> PRT
<213> Homo sapiens

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<223> "Thr" or "Pro"

<400> 264
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Xaa Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 265

<211> 191
<212> PRT
<213> Homo sapiens

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<223> "Arg" or "His" or "Gln"

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<223> "Ala" or "Thr"

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<223> "His" or "Tyr"

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<223> "Ala" or "Gly"

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<223> "Asn" or "Asp"

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<222> (91)
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<223> "Ser" or "Asn"

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<223> "Gly" or "Ala"

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<223> "Val" or "Ala"

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<223> "Val" or "Leu"

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<223> "Leu" or "Ile"

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<222> (173)
<223> "Ser" or "Pro"

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<223> "Ile" or "Val" or "Thr"

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<222> (189)
<223> "Ala" or "Val"

<400> 265
Met Ser Thr Xaa Pro Lys Pro Gln Arg Xaa Thr Lys Arg Asn Thr Xaa
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Xaa Pro Glu Gly Arg Xaa Trp Ala Gln Pro Gly
65 70 75 80

Xaa Pro Trp Pro Leu Tyr Xaa Xaa Glu Gly Xaa Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Xaa Gly Ser Arg Pro Xaa Trp Gly Pro Xaa Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Xaa Pro Leu
130 135 140

Gly Gly Xaa Ala Arg Ala Leu Ala His Gly Val Arg Val Xaa Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Xaa Pro Gly Cys Xaa Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Xaa Pro Xaa Ser Ala
180 185 190

<210> 266
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<223> "Thr" or "Pro"

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<223> "Thr" or "Ile" or "Val"

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<222> (189)

<223> "Val" or "Ala"

<400> 266

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Met Ser Thr Xaa Pro Lys Pro Gln Arg Xaa Thr Lys Arg Asn Thr Xaa
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Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
         35                  40                  45

Xaa Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Ala Arg Xaa Pro Glu Gly Arg Xaa Trp Ala Gln Pro Gly
 65                  70                  75                  80

Xaa Pro Trp Pro Leu Tyr Xaa Xaa Glu Gly Xaa Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Xaa Gly Ser Arg Pro Xaa Trp Gly Pro Xaa Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Xaa Pro Leu
    130                 135                 140

Gly Gly Xaa Ala Arg Ala Leu Ala His Gly Val Arg Val Xaa Glu Asp
145                 150                 155                 160

Gly Val Asn Tyr Ala Thr Gly Asn Xaa Pro Gly Cys Xaa Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Xaa Pro Xaa Ser Ala
            180                 185                 190
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<210> 267
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<213> Homo sapiens

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<223> "Ala" or "Gly"

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<223> "Thr" or "Ile"

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<221> SITE
<222> (189)
<223> "Ala" or "Val"

<400> 267
Met Ser Thr Xaa Pro Lys Pro Gln Arg Lys Thr Xaa Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Xaa
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Asp Arg Arg Xaa Thr Gly Lys Ser Trp Gly Lys Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Xaa Asp Pro
100 105 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Xaa Xaa Ala Asp Leu Met Gly Tyr Xaa Pro Val Val Gly Xaa Pro Leu
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Xaa Pro Xaa Ser Ala
180 185 190

<210> 268
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<223> "Cys" or "Phe" or "Ala"

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1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Xaa
35 40 45

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Thr Arg Lys Xaa Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Xaa Trp Gly Lys Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Xaa Pro Xaa Trp Gly Pro Thr Asp Pro
            100                 105                 110

Arg His Xaa Ser Arg Asn Leu Gly Xaa Val Ile Asp Thr Ile Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Leu Ser Cys Xaa Thr Val Pro Val Ser Ala
            180                 185                 190
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<210> 269
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<400> 269

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Met Ser Thr Xaa Pro Lys Pro Gln Arg Lys Thr Xaa Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Xaa
         35                  40                  45

Thr Arg Lys Xaa Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Lys Asp Arg Arg Xaa Thr Gly Lys Xaa Trp Gly Xaa Pro Gly
 65                  70                  75                  80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Xaa Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Xaa Pro Xaa Trp Gly Pro Xaa Asp Pro
            100                 105                 110

Arg His Xaa Ser Arg Asn Xaa Gly Xaa Val Ile Asp Thr Xaa Thr Cys
        115                 120                 125

Xaa Xaa Ala Asp Leu Met Gly Tyr Xaa Pro Val Val Gly Xaa Pro Xaa
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145                 150                 155                 160

Gly Xaa Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175
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Phe Leu Leu Ala Leu Leu Ser Cys Xaa Xaa Xaa Pro Xaa Ser Ala
180 185 190

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<222> (186)
<223> "Ile" or "Val"

<400> 270
Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile
1 5 10 15

Arg Arg Pro Gln Asp Xaa Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

```
Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145                 150                 155                 160

Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Xaa His Pro Ala Ala Ser
            180                 185                 190


<210> 271
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<223> "Ala" or "Thr"

<400> 271

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Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
  1               5                  10                  15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
             20                  25                  30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Xaa
         35                  40                  45

Xaa Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Xaa Ala Arg Xaa Xaa Glu Gly Arg Ser Trp Ala Gln Pro Gly
 65                  70                  75                  80
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Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Xaa Asn Asp Pro
            100                 105                 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
        115                 120                 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Xaa Val Gly Ala Pro Val
    130                 135                 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Xaa Xaa Glu Asp
145                 150                 155                 160

Gly Xaa Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
                165                 170                 175

Phe Leu Leu Ala Leu Xaa Ser Cys Leu Thr Xaa Pro Xaa Ser Ala
            180                 185                 190
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<210> 272
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Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Xaa Arg Asn Thr Asn
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Xaa Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Xaa Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Xaa Xaa Gly Arg Ser Trp Gly Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Xaa Tyr Ala Asn Glu Gly Leu Xaa Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Xaa Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Xaa Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Xaa Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Xaa Leu Ala Leu Leu Ser Cys Leu Xaa Xaa Pro Xaa Xaa Ala
180 185 190

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Ile Pro Xaa Xaa Arg Xaa Xaa Xaa Gly Xaa Xaa Trp Xaa Xaa Pro Gly
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Xaa Pro Trp Pro Xaa Tyr Xaa Xaa Glu Gly Xaa Xaa Trp Ala Gly Trp
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Leu Leu Ser Pro Xaa Gly Ser Xaa Pro Xaa Trp Gly Xaa Xaa Asp Pro
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Arg Xaa Xaa Ser Arg Asn Xaa Gly Xaa Val Ile Asp Thr Xaa Thr Cys
115 120 125

Xaa Xaa Ala Asp Leu Met Gly Tyr Xaa Pro Xaa Val Gly Xaa Pro Xaa
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Gly Xaa Asn Xaa Ala Thr Gly Asn Xaa Pro Gly Cys Xaa Phe Ser Ile
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Xaa Arg Pro Xaa Asp Xaa Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
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Gly Val Tyr Xaa Leu Pro Arg Arg Gly Pro Arg Xaa Gly Val Arg Xaa
         35                  40                  45

Xaa Arg Lys Xaa Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
     50                  55                  60

Ile Pro Xaa Xaa Arg Xaa Xaa Xaa Gly Xaa Xaa Trp Xaa Xaa Pro Gly
 65                  70                  75                  80

Xaa Pro Trp Pro Xaa Tyr Xaa Xaa Glu Gly Xaa Xaa Trp Ala Gly Trp
                 85                  90                  95

Leu Leu Ser Pro Xaa Gly Ser Xaa Pro Xaa Trp Gly Xaa Xaa Asp Pro
            100                 105                 110

Arg Xaa Xaa Ser Arg Asn Xaa Gly Xaa Val Ile Asp Thr Xaa Thr Cys
        115                 120                 125

Xaa Xaa Ala Asp Leu Met Gly Tyr Xaa Pro Xaa Val Gly Xaa Pro Xaa
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Gly Gly Xaa Ala Xaa Ala Leu Ala His Gly Val Arg Xaa Xaa Glu Asp
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Gly Xaa Asn Xaa Ala Thr Gly Asn Xaa Pro Gly Cys Xaa Phe Ser Ile
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Phe Xaa Leu Ala Leu Xaa Ser Cys Xaa Xaa Xaa Pro Xaa Xaa Xaa
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